

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, /possible nucleotide insertion)
13730	44098	A	13810	80	952	RPGIVALNAILPLSRTQSKPTR LKKRAIANCAPTWKKRFVALV YRTA*RFPSITLSVAVT*PASAK NKAIKMTQKIEQSQRQERVAA WNNRAECDLAAFQNSPKQTYQ AEKARDRKLCANLEEAIRRSGL QDGMTVSFHHAFRGDDLTVN MVMDVIAKMGFKNLTLASSSL SDCHAPLVEHIRQGVVTRIYTS GLRGPLAEISRAYCADSHHGP FAMVNNMTDLTAQEPAWQTR DHLDDPVIGELRNRFQPDFTV QATRTGVPPVWIKREQLLEV GDFLKKLPKPYVMLFDLHGMD RLRTHREGLPAADFSVFYHLISI DRNRDIMLKVLAENDLHVPT FTKLFPNANWYERETWDLFGIT FDGHPNLRWIP
13731	44099	A	13811	92	735	RLRLPLQPRSSVLPGLTTFHAS STSETRQSKPTRLKKRAIANCA PTWKKRFVALVYRTA*RFPSIT LSVAVT*PCVNIITIGQVKT VTIATAQIQRTFRNFHSRFQYFR NSPKQTYQAEKARDRKLCANL EEAIRRSGLQDGMTVSFHHAFR GGDLTVNMVMDVIAKMGFKN LTLASSSLSDCHAPLVEHIRQ GVVTRIYTSGLRGPLAEISRGLL AEPVQIHSHGGRVHLVQNGEL NIDVAFGLVPSCDFEGNANGYT GKACCGSLGYAIVDADNAKQV VMLTELLPYTDNPEA
13732	44100	A	13812	1	1113	
13733	44101	A	13813	5121	6228	LRRDSGRLRSCWHPRSPSTMG SGLGQREDLQEDRNSGADPGQR GRCSIHLEGGPGQPCQLQRAVQ GEGDPVLAKEEIQDQCHPHGQV QLLLVPAEPPVRAVPPRVQPV PHHHHPAELSGIREE*GNQND EN*TISTTRTGSGLESSR*M/SILP LSRTRQSKPTRLKKRAIANCAP TWKKRFVALVYRTA*RFPSITL SVAVT*PYWSGAPGPGCRRPYC HFRHRGARGSGAPGDGGEAPP AAAFGGDVGFGL
13734	44102	A	13814	56	196	CRGDGGKLIHQCRMRMG*PCG* LRQRKAELFQHLPLC*FWRPEI GTVCSGSIDNGSDRLRR
13735	44103	B	13815	64	2373	
13736	44104	A	13816	3	403	
13737	44105	B	13817	55	1040	

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13738	44106	A	13818	587	1533	VLLTAKFFPSMYSPIKTAGGPA ST*VL*MIISIDAEKAFDKIHQPF MLKALNKSENKIPRNPITYNGCE GPLQGELQTTAQGNKRGYKQT QQHDMHMTKNQYHENGHTA QGMKGITQPSAFIPTAESNSFQP QVKTLPSPIDAKQQLQRKIQKK QQEQKLQSPLPGESAAKKSESA TSNGVTNLPNGNPSILSPQIGIV VAAVPSPIPVQTRQLVLTSPSP MSSSDGKVLPLNVQSHQNCW WTRFNMSLNVVKMTTISLTPS NSNTPLKHSASFISATGTTEESR SVPQIKNGSVSLQSPGSRSSSA GGTSAVEVKVEPETSSDEHPVQ CQENSDEAKAPQTPSALLGQKS NTDGAQKPSNEGVEIKATKE RRSSPAEQSWMENVFEEQREE GFRRSNHSQIREDSQTKGKEEK RLKELMELKTKVRELREECRL RSRCDQLEERVSAAMDDEMNM KREGNFRKRIKRNEQSLQEIW DYVKRPNLRLGVPESDGNGT KLENTLQDIIQENFPNLRQANI QIQEIQRTP
13739	44107	A	13819	590	817	
13740	44108	A	13820	107	410	KGRNIQLNGPSSRVSLWRSLYF LNLNTGLPC*IGEVLLDNILQSV FQLGSILPITFRYTNQT*1WSFHI VPYFLEALLISFYFFSKLPFSLH FIHFIHFR
13741	44109	B	13821	1	3735	
13742	44110	A	13822	922	1137	HFFLHFNFGESDNYVSWSFSSR GVSLWRSLYFLNLNVGLPC*IG EVLLDNILQSVFQLGSILHITFR YTNQT
13743	44111	B	13823	1	954	
13744	44112	A	13824	3	156	
13745	44113	A	13825	683	972	SHRLLRLHSSRSSPGLVSSSISS FKHFSVLVILFTLMIVSFAVQKL FSLIRSHLSILALVIAFGLVLM KSLPTPMSSMVLRS/SSF*GFYG FRSYI
13746	44114	C	13826	1	895	
13747	44115	C	13827	372	1727	
13748	44116	A	13828	705	1072	LALLVELIPLPLCNGLLCLF*SL LV*SLFYQRLGLQPLPFFVFHLL GRSSSILLF*AYV*LFWHDFAA AGTGCSFPCLALPSGALVGQA WW*QKSLICLSVKDFISPSLM KLSLAGYEILG

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13749	44117	A	13829	1	1136	
13750	44118	A	13830	547	675	
13751	44119	B	13831	144	1877	
13752	44120	A	13832	1	441	
13753	44121	A	13833	27	344	
13754	44122	A	13834	287	600	GPGLQSSPLLSPWPWRASSPLL LRPSVRGWHLGEP*NCFPSPLA AS/EQAPKRSS*PQCNHR*RETA ARGLAYPPDRPLPSMLSCEPSE TPAKAGPGRERGCEKC
13755	44123	A	13835	2	226	
13756	44124	A	13836	2	226	
13757	44125	B	13837	45	518	
13758	44126	B	13838	1	699	
13759	44127	A	13839	3	362	
13760	44128	A	13840	2	130	
13761	44129	A	13841	3	96	
13762	44130	A	13842	1	545	
13763	44131	A	13843	2	144	
13764	44132	A	13844	2	91	
13765	44133	A	13845	1	370	
13766	44134	C	13846	1	214	
13767	44135	A	13847	215	310	
13768	44136	A	13848	2	91	
13769	44137	A	13849	1	289	
13770	44138	A	13850	1	997	
13771	44139	A	13851	1	192	
13772	44140	A	13852	2	267	
13773	44141	A	13853	2	181	
13774	44142	A	13854	1	171	MESYAAIKNDEFMSFVGTWMK LETILSKLSQGGQKTKHCMFSL TDVIARRRSWTSI
13775	44143	A	13855	92	244	KRRRRRGQIRKMKEEENRRT WMKLETILSKL*QRQKTKHRM FLLIGGN
13776	44144	A	13856	146	382	
13777	44145	B	13857	124	1215	
13778	44146	B	13858	1	628	
13779	44147	A	13859	377	484	
13780	44148	A	13860	2	220	WARTSCLKHQKQWQKPKLA NGI*LN*ASAQKQKLPSEWTG TWMKLETILSKLLQGGQKTKHR MFLIGGN
13781	44149	A	13861	965	1150	GVDQRAVCSSRIW*SHLFLFHS VVVHLPWAGTWMKLETILSK LSQGGQKTRHRMFLIGGN
13782	44150	A	13862	254	571	YSYKLEIIGKQPEIYRDCYRP AV*SQTAVLASEAPWA*DLPS QVSDTISWWTVC*AHWKSAVL GWE*PGFPGTWMKLETIVLSLK LSQGGQKTKHHMFLIGGN

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13783	44151	A	13863	62	214	
13784	44152	A	13864	274	435	
13785	44153	A	13865	1	294	ASTAGSYYYVAQAGLKLLGLS LSKCRDYRCEPPCPE*MSLYKV MAMARKAMSLVYIFFLDEFM YFAGTWMKLETHLSKLSQGOQK TKHRMFSLVGGN
13786	44154	A	13866	663	1266	PPLTCQCSHLCVTLVGH/WIKLE THLSKLSQGOQKTKHRVFSLIGG AGALAKECMSLYPGCKITVFDI PEVVTWAKQHFSFQEEEQIDFQ EGDFFKDPLPEADLYILARVLH DWADGKCSHLLERIYHTCKPG GGILVIESLLDEDRGPLLTQLY SLNMLVQTEGQERTPTHYHML LSSAGFRDFQFKKTGAIDAIL
13787	44155	A	13867	1	681	
13788	44156	A	13868	1	247	
13789	44157	A	13869	2	178	
13790	44158	B	13870	1	2042	
13791	44159	A	13871	1	378	
13792	44160	A	13872	1	683	
13793	44161	A	13873	1	972	
13794	44162	A	13874	308	406	
13795	44163	C	13875	177	653	
13796	44164	A	13876	1	465	
13797	44165	A	13877	3	1175	FFSQAAALLVVLGSSHTLQRA RKHSAPGLPDTCALLQPPAASA AAAPSMSPDVPETPSAIQICRIM RPDDANVAGNVHGGTILKMIE EAGAIISTRHCNSQNGERCVA LARVERTDFLSPMCIGEVAVHS AEITYTSKHSVEVQVNVMS ENI LTGAKKLTNKA TLWYVPLSLK NVDKVLEVPVPPVYSRQEQEEE GRKRYEAQKLERMETKWRNG DIVQPVLNPEPNTVSYSQSSLIH LVGPSDCTLHGFVHGGVTMML MDEVAGIVAARHCKTNIVTAS VDAINFHDKIRKGCVTISGRMT FTSNNSMRFKVLLDPAPVVD S FQKRYRGRQCLSS T*VLSQER QV/PLPVPQLVP/ETEDKKRFE EGKGRLYQMKAKR/QGHAEPQ
13798	44166	A	13878	121	361	SLFELENRSKFSVATAGLVPSR RLSINCIRRAFITSSNGFPLWFCL HQKGPVDCCVAVY*CGTEDGS WAPTHPGVGPSLP
13799	44167	A	13879	1	462	



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13800	44168	A	13880	3	287	PCSLSSDCCASNQRDSVIGPSE PRVGYNILVIRFLSPSEKRSR\V GVTRFSSAWEPSQLAGILPISEP PSNRIFACWGKPAWTACCNLSR ARR
13801	44169	A	13881	1	1332	
13802	44170	A	13882	1	753	
13803	44171	A	13883	1	516	
13804	44172	A	13884	71	277	IYFNTQESFCPPRPLK/LCDGRG CHKGL*NAFKAFSPFSWPLALG SFLLMQISAACLNSFPENGLFFS TT
13805	44173	B	13885	1	1095	
13806	44174	A	13886	1	741	
13807	44175	A	13887	264	2880	WLLQKHKLHVSRLGLPDTSW ILPSRPDAGGRFPRTPPCVL VV HKPSRHCREWTA NTVPK GAL AKWLLEPKADLQGWHL PADG QYTKPSISYNIKLYINCYNRTVT TAAQHQQVQRKHGASIFLAEN VAVREKDKEEKVTRAPTEQA WTAGSWIETAYREIKGVGQES VCITVMHLEELVYELAWIUMSA VVEAFDPVAPSSKRLNPD PDP YCCTPYTLHTSPPPSPCTPYT LHTGPPQTPFCCTPYTLDTSPS PQTHSCCTPYTLHTVPTFHLPA AHPHLLHTIPPQTQGGQFVSED EYLEISDIKRDQSGEYECALND VAAPDV RKVKITVNYPPYISKA KNTGVS VGQKGLSCEASAVP MAEFQWFKETRLATGLDGM R IENKGRMSLTFFNVSEKDYGN YTCVATNKLGN TNASITLYVD HIVGSKALLSKCKRTEIITNYLS DHS AIKLELRINKLTQNHSTTW KLNNPLLNDYVWHNEMKAEIK MFFETNKNKDDTTYQNLWDAFK AVCRGKFIALNAHKKQERSKI DTLTSQLKELEKQE QTHSKANR RQEITKIRAELEIETQKTLQKI NESRSWFFERINKIDRLRLRIK KKREKNQIDAIKNDKGDITTYT TEIQTITREYKYKHL YANKLENL EEMDKFLDTYTLPRLNQEEVES QNRPTTGSEIVAINSLPTKKSPG

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13808	44176	A	13888	1	629	AMAGSPPASLLPCTLISDCCAS NQRDSEGVGPSEPGVGYSLVV RRFLSPSEKRSIRVGVTFRSRR PSPLSLTQKGNSLTWSAQVLT PAPEKQPDNKLPLPRGSRDPT EYFHGQEVDRKSDHEVHDHVSQ IHSFRDEVKRLGAEDSSNAETP TELHEFNTGGVYRPPNSTSVIQP LDQGVIRTFKPCYTKYSLEKIVS AVEENPDRT
13809	44177	A	13889	1	1452	
13810	44178	A	13890	167	309	
13811	44179	A	13891	3	386	SVGALQKQGGWHQRRCSLHF PSFLCVFSLAKSRRADHNQDPR ASRMASFSLTSSPLARSAASAVA AFGGCTSGNGRFSSVP*AYRQV FQRIAIAYVGPLMRDR*AHPVK TPDAIDCRIRQPAIPRLQ
13812	44180	B	13892	121	298	
13813	44181	A	13893	473	1826	
13814	44182	A	13894	1	270	
13815	44183	A	13895	3	3706	
13816	44184	A	13896	1	1464	
13817	44185	B	13897	591	729	
13818	44186	A	13898	1	1326	
13819	44187	A	13899	1	1152	

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13820	44188	A	13900	1	2524	MREEFAHRWLARAGEKTPFDA LEKLTDPMLFAAAMVSAGKAD VCIAGNLSSTANVLRAGLRIIGL QPGCKTLLSIFLMLPQYSGPAL GFADCSVVPQPTAAQLADIALA SAETWRAITGEEPRVAMLSFSS NGSARHPCVANVQQATEIVRE RAPKLVDGELQFDAAFVPEV AAQKAPASPLQGKANVMVFPS LEAGNIGYKIAQRLGGYRAVGP LIQGLAAPMHDLSPIAATDAG SAAQIRIGDLVSVHVIRPHVD LEQVFPGLKAYTATCNHPVSL RFTIKSSDRIKLSNQTLSQSKNL FIMRFYCFSLCLSLSAFYHCRGV IVNIQAVFWLQKGTEAADILTT CAQLWIMMYALLSVFSLLDVIL NLAQKFPAASQLPLKGIFQGIKL IGAILVGILMISLLIGQSPAILISG LGAMAAVLMLVFKDPILGLVA VRNWDNTITTTIPTWSLVSDSFK NWSGMSASGGRRIKRSISIDVTS IRFLDEDEMQRNLKAHLKPYL TSRHQEIENWNRQQGSTESVLN LRRMTNIGTFRAYLNEYLRNHP RIRKDMTLMVRQLAPGDNGLP LEIYAFTNTVWVLEYESIQADIF DHIFAIVEEFGRLRHQSPGTGNDI RSLAGVTINKAPGDDEILKNTV DFVSFSYYASRCASAEMNANN SSAANVVKSLRNPLYQVSDWG WGIDPLGLRITMNMMDRYQK
13821	44189	A	13901	1	2370	
13822	44190	A	13902	1	282	
13823	44191	A	13903	1	714	
13824	44192	A	13904	3	506	
13825	44193	A	13905	459	551	
13826	44194	A	13906	401	492	
13827	44195	B	13907	479	702	
13828	44196	A	13908	120	256	

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13829	44197	A	13909	16	1249	SKSGAIEIARLAGRVHGVVVQI TSEIGPLTLLTANFAFSAS*STA WKATSMDEGVLS*YSTASAS AERQSTHQ*TGFAPLCR*PLPMI /VAQRADDVGFSEVHGQVRV RPVAQHAQTDKVFALTYNLGR RVFAALGAELGGARSAVRPVP ECYAVRETLALLQKIFPIRQCEN SVYRNRSRFLQYQIGRCLGPC VEGLVSEEEYAQQVEYVRLFLS GKDDQVLTQLISRMETASQNLE FEEAARIRDQIAVRRVTEKQF YSNTGDDLDVIGVAFDAGMAC VHVLFIHQGKVLGSRSYFPKVP GGTELSEVVETFGQFYLGQSQ MRTLPGEILLDFNLSDKTLLAD SLSELAGRQINVQTKPRGDRAR YLKLARTYAATALTSNFRSIYR SPATDRACQRVETAGNER
13830	44198	A	13910	1	438	
13831	44199	A	13911	1	1200	
13832	44200	A	13912	1	300	
13833	44201	A	13913	1	431	
13834	44202	A	13914	2	1465	
13835	44203	A	13915	1	513	
13836	44204	A	13916	3	535	RDKILVFKDENFWMIRGYAVLP DYPKSIHTLGFPGRVKKIDAAV CDKTRTKTYFFVGIWCWRDFE MTQTM/EKGFPQVRVVKHFGPISI RVDAAFQYKGFFFFSRGSKQFE YDIKTKNITRIMRTNTWFQCKE PKNSSGFGFDINKEKAHSGGIKIL YHKSLSLFIFGIVHLLKNTSIYQ
13837	44205	A	13917	1	876	
13838	44206	A	13918	23	414	
13839	44207	A	13919	2	425	QERGPHQVIQRKECLREYSPVV S*AKGTGVAVGQKGTQLQCEAS AVSSAEFWYKDDKRLIEGNK GVKVENRPFLSKLIFFNVSEHD YGNYSVCVASNKLGHNTASIML FGPGA VSEVSNGTSSRAGCVW LLPLLVLRLLLKF
13840	44208	A	13920	1025	1270	
13841	44209	A	13921	370	701	
13842	44210	B	13922	1	660	

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13843	44211	A	13923	1	432	RFSRVDDFVLTMDDGPPRRAR GDLTHSGLWRVCCIEGIYKGHC FRINHFPEDNDYDHSSEYLLRI VRASSVFPILSTILLGLLCIGA GRIYSRKNIVLSAGILFVAAGL SNIVGIIVYISSNTGDPDSKRDE DK*NHYN
13844	44212	A	13924	1	1093	
13845	44213	A	13925	1	1203	
13846	44214	A	13926	1	1353	
13847	44215	A	13927	2	445	
13848	44216	A	13928	1	227	
13849	44217	A	13929	1	840	
13850	44218	C	13930	120	356	
13851	44219	A	13931	40	342	
13852	44220	B	13932	403	473	
13853	44221	A	13933	70	2169	
13854	44222	A	13934	1428	1905	RCAATSGYGERVQRITV/PTHV W*ASLSQSSAHRVVAINSIANK RSSMPPKSWATVALTSTKLKCR FMAKVRNKSFSLVHNV*MTISI/ SPWVILSSGVDEKLPRAVRVA MTAGASGFLAGRAVWASVVG LPDNELMLRDVCAPKLQQLGDI VDEMMAKRR
13855	44223	A	13935	227	342	VHSWQRYSGR*RGY*PQNQSA TDQTRRWQSLKTAGAVA
13856	44224	A	13936	480	928	FFADLQQPVCADSYPLLVMQK LAPHKS*NAVWQRSATKSFVS L/AQGLNDHINMPWVILSSGVD EKLFPRAVRVAMTAGASGFLA GRAVWASVVGLPDNELMLRD VCAPKLQQLGDIVDEMMAKRR FIPLLRWVDLALTRWLITVSK
13857	44225	A	13937	564	1185	WLHASAALLRW*YQLPGQPHH RRCRSADGSHVPSLCAAVPDQR VPLITVRRIGMQAMTTSTTGDRQ RSWQIAMDGSQKLQRMMLDSV RWHLAHDSKFDLLALGVAGW MRYVGGVDEQGNPIESDPLL RMAANRFVHITQLPVIYRAFRN SFTQVARIQLCHKRFQQRHTSV REQIVTVLSGIRDNVHVFVQTL TGDGVGNQRLVQ
13858	44226	A	13938	228	424	HRFCPAARH/RSWSGLREMAVS ISMRRRIINSGRYCAICWYKRRS RCARNMLIFVARSTPIPGPS
13859	44227	B	13939	128	1670	
13860	44228	A	13940	2	2367	

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13861	44229	A	13941	1	921	ELPASPAPCARTPQPLGGRWEA ARRKERVLCDFVDGTLTPAR/ QGRITLKIGSSHRECHADTPAE CGVCSSVTEVRAK WRSQTC*KP ECYASPLPP*KIDPEVA AFLQKL RSSYLPVGSQTWSHTLSSSCPLC DPEVIGRDTVPVSGSGSPGHAQ SPVFLGQTIQNLGPGGARFEF RA/CSGSLWL PALPHH RGT FIEF RNGNCVPSPQGLAHSRSELPSA PSPLQKEQA ALLLAL SAPPRE* QSPPLPTGGMISFDFPEGWDK QVRSSQCGEGLHNLNIPPLPILCV QGGNDFEIFADPRTVGHS
13862	44230	A	13942	105	416	HSVLEVGPWVEVFGSWGQILH SLVSSHVRHWLLPSPSAMTES SLTFQKQPSRCQHHASCKAYHS HQLLLVPTAGRLEDRSHH*IPC KHSPAPAWSLAAPVGN
13863	44231	A	13943	191	573	SSSGGYQQQLMRVIGTRDTAV NKASNVPSFGA*/IPSGRGQAK LIALTRALTLAKELHVN IYADC KYAFHILHQHDVIWAERGFLT V QGSSSIINASLIKTLKATLLPKE AGVIHYKGHQKASAPIA
13864	44232	A	13944	1	1065	
13865	44233	A	13945	321	537	
13866	44234	A	13946	346	1260	GGPARAEFSRHLGCKGHHPLPK DVASEVPAGSSTSVSLIRTNCG PGLGSWEPP*FFSENKRLSTLMS FTLRDSKMFSQSGFLGCSAG EHSALRDPTASGLPGTASGVRP GR/RQRVGS DIEASTQGESKPCI LSI*TL PNA*LKTKLTLPLEAAC TNPHFSITARIGPAHLAAPRPV TPAGRGRGARAPGR*CAAAARPPP ASQ*VSGSPAPGGGSPYAPAAAR TS*PSSLAPGAKRLRFSRVATFC CSFLAWSSSSNKAFCT*EHMSL LSSWISQSLKVASCCPCEQFDS WKRENILLFS
13867	44235	B	13947	1	459	

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13868	44236	A	13948	63	1263	V E A A K K A H H A A C K E E K L A I S R E A N S K A D P S L R P Q A H T Y A L S P L F L T A M P S V * Q G E H V I Y T R V R H S D Q V S E S S G K L S L P L E P G I W A F E A A Q V P P R W D Q V R S L E P T T E W E A P G L K K R R V S Q G L N G N E P L S C A W I F L * T K E Y E K S L K E L D Q G T P Q Y M E N M E Q V F E Q C Q F E E K R L G W D K G * L A P A F * K S H V S L * F S Y K A I Y H D L E Q S I R A A D A V E / D R R G F R K * * T F G F S P S A P V A * E W S A D L N R T L S R R E K K K A T D C Q D P H G P L Q S W D P L K A L S L H S T L N V P S N P A Q S A Q S S Y S N P R G P H T L C R P V L R A L W P L S C S V S S Y E K T Q S Y P T D W S D D E S N N P F S S T D A N G D S N P F D D D A T S G T E V L C S P P S V S Y L S W R R L P L C L A G D E L T K M E D E D E Q G W C K
13869	44237	A	13949	2	485	A A A F G T R L S R R G R G C G V T G S G G G R R R V P A P R R P S P L Q P P H Q / P P R R P S R R T P G C G S R G A / P S R G R R L V P P P P E P P R A A Q Q R A R H V R T S / R P A A R Q P P R R P P A Q P R S C P R R V R P T P A W S P P G R R G P R R S R R R R R R G G R A R A R R P R R R G Q V P R P Q S A T G A G H A R
13870	44238	A	13950	1	207	
13871	44239	B	13951	1	5297	
13872	44240	B	13952	1206	1360	
13873	44241	A	13953	46	369	N E G K N A K G S Q R E R S G Y P Q R E A H Q T N S G S L G R N P T S Q K R V G A N I Q H S * R K E F S T Q H F I S S Q T K L H K * R R N K I L Y R Q A N A E R F C H H Q E G S T K H G K E Q P V P A A A K S C Q N V K
13874	44242	A	13954	476	868	K Y D C C I S S T F C R A L V H F S R T T F Q V N S P L S P N I S A F G Y M P L K Y S I Y F L H H L R P N I L * A A S Y F L K Y K G T L K L P A L R G C L S * S T R C W C K I H I C I * N D / E C L Q F L G P W F E N E F C F L P S T S Q F V E F V L D I L V L Q N E P

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13875	44243	A	13955	1770	3003	PANIIMTGSINSHITILTLNVNGV LNAPI*RHRPAIA/S/WLSQDPS VVVICIETHLTCDRTHRLIEIG WRNIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYIMAK GSIQEEELTILNIYAPNTGAPRFI KQVLSDLQDRLDAHTIIMGDFN TPLSTLDRSTRQKVNKDIQELD SALHQADLIDIRTLHPKSTEYT FFSAPHHTYSKTDHIVGSKALL SKCKRTEITITNCLSDHSAIKLEL RIKKLTQNHSA TWKLNLSLLND YWVHNKMKAEIKMFFETNENK DTAYQNLWDTFKAVCRGKFA LNAHKRKQERSKIDILTSQKE LKKQEQTNSKATRRQEITKIRA ELKEIETQKTLQKKQPNKDPAM EKNKNTDRVLARLIKKKREKN EFSAHILYKFSKQNGS
13876	44244	A	13956	105	392	RSRKPRGNPKSHPEDTDPTKAP RKQRQISSRGHRSR*EPGPQSA PGFREQRRRGQMG*IWYLTPT PGGQRPSSAASPRGFPTNNSR LPAAEPE
13877	44245	A	13957	55	403	SEGMSGKASEKQEAFCPRHLT RAVDGPS*SGLLGSRLPPSCSPG KEAPGGSELYLCLMRGLQTL*A RSGTGLR/PNPAEIR*EPGPQSA APGFREQRRRGQMG*IWYLTPT PPGGQ
13878	44246	A	13958	217	444	RSRKPRGNPKSHPEDTDPTKAP RKQRQISSRGHRSR*EPGPQSA APGFREQRRRGQMG*ITPCRP ALPKSKPRPL
13879	44247	A	13959	309	670	PCPRASSQGLKATHGQR*SSEP PGASFGLQDGGRRPRRPD*D GPSTGLVRCLGHANVGDPLK VFVFFKNLSPTYLRASAEQTLPL LLPLHLGLCLHQLHLGFTAA WAQLTFWEASQ
13880	44248	C	13960	392	760	



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13881	44249	A	13961	24	915	HAGRHARGSLFPGARPSETRAH CVRTARPNCKEEDTPMVRGKN SGGEHCTWGPSLAAGG*GIGDP GGLPGTTPHPLQLLLHGFAGP HMASLCCGVSSPAGVQRWPA* GSGNHQVKS WLGLPKNV S*AP SML*NPQMQLMKAQPHGRCE VRRGRVCSALGP/IGMSGKASE KQEA*DEGHPHLHAPGT*QDQ VDGPS*SLIGSRLPPSCSPGKE APGGS ELYLCLMRGLQTL*ARS GTGLRANPAEIR*EPGPQSAAP GFREQRRRGQMGIWYLTPTTP GGQRPSSAASPRGFPLV
13882	44250	A	13962	397	612	RPQHHTFCCDGRVMMARQKGI FYLTFLILGTCTLFFAFE/CSFG *VELPDYGYFGSRGRTCFGLSL GLVLG
13883	44251	A	13963	125	1298	FQSWAQPLFLLSCNRKTHFGTR IPIMSVMVVRKKVTRKWEKLP GRNTFCDDGRGMMARQKGI/ YLTFLILGTCTLFFAFE/CGRYL AVQLSPAIPVFAAMLFLFSMAT L/LRTSFSDPGVIPRALPDEAAFI EMEIEATNGAVPQGRPPPRIK NFQINNQIVKLKYWYTCKIFRA SRASHCSICDNCVERFDHHCWP VGCNVCGRNRYFYFILSLSL LTIYVFAFNIVYVALKSLKIGFL ETLKETPGTLEVLICFFTLWSV VLTGFHTFLVALNQTTNEDIK GSWTGKNRVQNPYSHGNIVKN CCEVLCPPLPPSVLDRRGILPLE ESGSRPPSTQETSSLLPQSPAPT EHLNSNEMPEDSSTPEEMPPPEP PEPPQEA AEAK
13884	44252	A	13964	44	647	DYSAQHGKASQKHVARLISSGT FQGATVSRPFQLSTSSSFCSSSS SLSSSSSLSSLLSCSSSVFLS LSFFFCSEASFLPFC SRLYASRA SFNGVTNRWNSISSMAESTSLA FSVFRFFIAKLLAQDVAYSTKT LAAREIGAPGLLDVDVTRELR GDRG*AKLPFQHLPSPCPFVRPP RAAHRLLDDPGDHGIGQV
13885	44253	B	13965	158	1075	

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13886	44254	A	13966	125	1297	FQSWAQLPFLLSNCRKTHFGTR IPIMSVMVVRKKVTRKWEKLP GRNTFCCDGRGMMARQKGI YLTFLILGTCTLFFAFE/CGRYL AVQLSPAIPVFAAMLFLFSMAT L/LRTSFSDPGVIPRALPDEAAFI EMEIEATNGAVPQGORPPRIK NFQINNQIVKLKYWYTKIFRA SRASHCSICDNCVERFDHHCW VGNCVGRNRYFYFLFILSLSL LTIYVFAFNIVYVALKSLKIGFL ETLKETPGTVLEVLI CFFTLWSV VGLTGFHTFLVALNQTTNEDIK GSWTGKNRNVQNPYSHGNIVKN CCEVLGCP/PPSVLDRRGILPLE ESGSRPPSTQETSSLLPQSPAPT EHLNSNEMPEDSSTPEEMPPPEP PEPPQEA AAEAK
13887	44255	A	13967	247	850	DYSAQHKGKASQKHVARLISSGT FQGATVSRPFQLSTSSSFCSSSS SLSSSSSLSSLLSCSSSESVFLS LSFFFCSEASFLPFCRLYASRA SFNGVTNRVNSISSMAESTSLA FSVFRFPFIKLLAQDVAYSTKT LAAREIGAPGLLDVDTVRELR GDRG*AKLPFQHLLPSCPFVRFP RAAHRLLDDPGDHGIGQV
13888	44256	B	13968	298	380	
13889	44257	A	13969	48	252	QRAGSPHSPRSLAPLPPLPLW RHLRSPSAHRCTVGAPFWDGQ G/LEPAPSAALAAFPISRARDLQ LA
13890	44258	B	13970	1	447	
13891	44259	A	13971	236	559	MWLEPMQMGLFHMMEKMAA RTSAILD*GTLK*FHFTLTSLK ALSSHTPIFPGTGELQLPVSPV CLDQGMQLKPSTSSHLLKTVKP RMKRQSLHMKQSFEPKIYL
13892	44260	A	13972	1	645	MKPQTLTVSVTAFKVAHLEFVP SDVQMCSEFLPSGGFVVSLSAG VKLQTFVAVSFTAHKSSVDPKNS EAQLASPSGFCTRAADGAACQS LPCTCTPQPLGGRWDWALWS RGW/LLVEEA WAAQEPTEELRE RALALASPERGSHSAVVGQAP QVPPKWEPRQRRRRERARAVR TASTLSPLNPPSKQDITLTVGN LADHSSYFLLDRGEAGLQL
13893	44261	A	13973	28	322	
13894	44262	A	13974	1760	4426	
13895	44263	B	13975	942	3414	

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13896	44264	A	13976	1	274	
13897	44265	A	13977	545	1150	RISGPGAVLLPVPMPALWRLRHR MFSLTKK*HLPAPHRSLAEGYLL YQPQLDTLKLRLTQKYQELQV LFEAYQIKKTKLDRQSSASLET LLALLQAEGAKIEEDTENMAEK FLDGLPLDSFIDVYQSKRKL HMRRVKIEKLQEMVLKGQRL/S TRPWPRCPGPCPNWHLPPFPPT LPQSQWASCRCTSAHPPTTPG AAGRL
13898	44266	B	13978	213	611	
13899	44267	A	13979	1	639	MEAVTVVPVGTEEGMGEEQD SGTTTGCGLPSVEKMLATNPGK TPISLLQKYGTTRIGK/TPVYLL KAEG/HQPNFTFWV/VGNTSCT AQGPCKKVVVKHAAEVALRHL KVESMLEPAPEDSSFSPLDSSL PEDFPVFTAAAAATPVSSVFLT RSTPMEKQPPLL*QQSECIPVG ALQKLVVQKGWWLPEHTVT*E SRPDQHEELT*RVERT
13900	44268	A	13980	361	894	AFFPMSTAGVCGNVEGEPETP WSLPLSQVPFSPNA/CPQGTGLR S*AGVAGAPGPGVPGRSPAA/GI PEPAARPGRPALSRPLGLGGAG ARSGAA*G*GSRPGG/PLPADP VQSWG*EAPSH*PGTSADSP PSGVSGATGDCLWGSRAELF GFATTSSAAPFGLPTFFFPVSP
13901	44269	B	13981	1	3842	
13902	44270	A	13982	3	407	DAWAAARPGRSCALPPPAGA/PE EPGHVPGAAG*G*GSRPGGRFQL PDPVQSWG*EAPSH*PRNFQ TRRHLGVKQHGCSQSPHGSRA SQAHPGISGLF/GPHHPGPPLFIH GPRCCCAQATASNHLFACGTSS DP
13903	44271	C	13983	127	297	
13904	44272	A	13984	3	1920	

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13905	44273	A	13985	3	2271	GQGRRTAGGGGGGAGVGAG AGAMEAERGPERRPAERSSPGQ TPEEGAQALAEFAALHWVSGE GIGVGSPAHTPADGNSGPQVFD AGEVFGIMQVEVEEEDEAAR EVRKQQPNPLAPPTSLCPMPTR QPHIVACARSIFLDHAWTCRV EHARQQLQQVPGLLHRMANL MGIEFHGELPIWVPEGSSGGW MGEREVPYVLCQTAEKMPV WYIMDEFGSRIQHADVPSFATA VPLEEGPQSPVSPPLMGTH/DL GTEEVTRDFAYGETDPLIRKCM LPLSSSHRGMETPCVHTSRASL PLQACELPSWSLLINEPPRPAF PSLP*PHLYFRVCVSF*AIPGLVLE SRLDTWEPGSPSSGSPHRVYTD VQQVASSLTHPALPVRASRHC PPLELAHLPPPCRKLSQERPGVL LNQFPCENLLTVKDCLASIARR AGGPEGPPWVVLGWHLGTQ APGAPQTALLPRGEDNHWICK PWNLGLCVLGSPLGCPGHQR ACTCVLQVVSKEYIESPVFLRE DVGKVKFDIRYIVGGTSLAGTR PLKNPYVSAHLSSRAFAQGRRG RGGPTWSGWLLARDPARV*DL LSSLVHSVERCPMQWALSEWQ LHHLSTWSSGLCGLAG**VFQM HRTPTP**QAACSRPSGGLYR A*WALCLLPGAADPLLRCGSEQ AS*LRLPGPQAEIFRAFTFLFQV
13906	44274	A	13986	1	600	MEEQRVQFTLWLHFSPHGICQF ESGRQEAKKLKGSGQPLKTGEI KTGIQKYRREALQHYLGPASL AGRSKALTGTAERSCSSGSDSI FTLCVNYNDSRAIMKTLAIGT GFDCAKAEIQLVQILGMPPER FMYANSCKQMSQIKYTANNGV QMMIFGNEVKLMSVARTHSKQ P/CHISVKSGAMLKASRLLE*A KEL
13907	44275	B	13987	1	2040	
13908	44276	A	13988	205	438	LYFLETGVFCVQVPAQQC*CSV PGSCRRPLEEAGWRGLGSLGRL AGTGLPSGSRGNRTREGERGKL VRGRRGVTRWLS

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13909	44277	A	13989	284	632	KTGVFCVPGPRPTVLM*CSFVG GKKNQYCLTGDAGCLQEKHSL GPAGV/HLEEAGWRGLGLSGRL AGTGLPSGSRGNRTERGERGKL VRGRRGVTRWLSHPQVQRQAD AGTCSFPFEP
13910	44278	A	13990	594	1003	VRKGHHAVRGLCGRAQFRCIS GDPGKRPLG/LPGGNAPKSGSL ARRPQPVRIPIGSRPQ/RGSVSHL GPAGVH*/RAGWRGLGLSGRL AGTGLPSGSRGNRTERGERGKL VRGRRGVTRWLSHPQVQRQAD AGTCSFPFEP
13911	44279	A	13991	1	1500	VRVAHIPIAAEIAAIPDRGGHL SVGKRRLTFWFFYGVLPPFRDV AIEFSPEEWECLESAQQHLHRD AMLENYGNLVSLAAGDQSLPG DAAASAVCRQLSPSACGAILGL PPVNGVAPVRLRGEIVTYTWSQ LTGLALALSKDGADGLRRLTRP TRRAPPALLAPQTAAERWRG KCDPRHGGGICALALQGWTLYP RESPSRESKELGGLWSFRADLD SRRQGFEEQWYPRPLRELGRG GRRPEARRWEGSGPGCRLLPL SAPELAPYRKLVNGLRGAGL GDGETGGTGEGRGRRRKRCC RTLSDREGFNDCQDWLWRQF VGWVLYEQEVTLPQWQTQHLR TRVVLRASAHSYATVVSAAARS RQGRIGGLIYTLGMPFFLSGW QVPEPHAAGYVRECLIAGPLLM P/TTCCPLLISPVSAVGEWGRHA RA*GADSSSLVQNTDFDFNYA GLQRSVLLYTTLTYYIDITITT GVEHDSAEIPFPEYLRVNTGN
13912	44280	A	13992	2	307	
13913	44281	A	13993	220	427	MSTLPFSLQMFRRPPYGSPTC RSQDNRSYSRVTEELQERRRW NSGDAN*QDSPEARQRPRHIE EAA

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13914	44282	A	13994	1	2832	MGKYYTQGDKVLMLAIQVH HACDGFHVGRMLNELQQYC DEWQGGAYPKGYFVQNTDFDF FNYAGLQRSVLLYTITTYIDDI TITTGVEHDSAAAPMVDSLAR VGVMARGNAITLPVCGRDVKF TLEVLRGDSVEKTSRVWSGNE RDQELLTEDALDDLPSFLLTGQ QTPAFGRRRVGVIEIADGSRRR KAAALTESDYRVLVGELDDDEQ MAALSRLGNDYRPTSA YERGQ RYASRLQNEFAGNISALADA
13915	44283	A	13995	1	2934	MITFDFMSHIQVTLMQEVSFHG LGQLRPCGAGYSPPPGCFHRL ASSVCSFSRCTVQAAVDLPFWG LEGTSPLLAASLGSAPVGTLCG GSDPTFPSWTALADVLHEEGHT PASNFCLRNLAGESQSWRKE GLGTPRPTASSTEELQTLNEDSR LMTSPHINLETRDCDTELPKKS LGWKEIRVYGGNKT LGFWLQA QLLICDGGNLRMFRLPYGSPS TCRSQDNRGYGGVTEELMERK RWNSTDGFIHQGVLE
13916	44284	A	13996	68	425	SHILPGAPGAPAWWTRWPSTLP EPFPRGRGSPAGTSPISRPGLVQ SS*ASRGSDSRLPV/GPASCQAS GPGPDSRRPPCTPA/GPHHGSL PSAGR VGASAAAAGPPSPAVPL PPAERPAP
13917	44285	A	13997	324	723	TAFSLNFQGGVEGEVWAGTRA ARGACAGERGLGGSRTSGW/P GTAGPGQAGHGTCSLPCPSLPP AMGSCVSEPPRQAPPAPWRLV PSTAQGLRSVGTQCGTGGSSAC GPC/GDPGF*THQSAPCQNGPIS SL
13918	44286	A	14000	39	383	

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13919	44287	A	14001	181	1446	EDLLQEAAQLAEVTAQGKGLG QVRSLLDLSLEACAGSPPLQVLD LQDREPRSLTSLPSSAANRGLK EKAQSNPCGHRRHQAAGLKL LFSQAQPGQPTAPRFRAATR KPGTAQSHAPLWSPAMSFPEL YFNVDNGYLEGLVRGLK/ALGE LSQADYLNLVQCETLEDLKLHL QSTDYGNFLANEASPLTVSVID DRLKEKMWVEFRPHEGTMYP EPTSPSP*TSITLQFT*FDNVIL WLIHRARLHRSIAELVPQVAH PLGISFEQMEAVNIAQTPAELY NAILVDTPLAFAFFQDCISEQDLD EMNIEIHRNTLYKAYLESFYKFC TLGGTTADAMCPTLEFEA/NR RAFINTVFFGATKTPVKKDRCP AFFPH/CGAGFFPEGPAAMGFG LNNLLTGAKKRGYPYFPEVQL AFLRGDG
13920	44288	A	14002	1	1182	
13921	44289	A	14003	26	342	ARFLAGP*LPSRRTGLRDLQPA MPEPPPTPWAPVRPEPRRAP PAPRRPVSTGKEQTQGLRSA GAGHRDWQAAPAAPVRDPLG EASWAPESGGDVESLYV
13922	44290	A	14004	66	463	
13923	44291	A	14005	3	1446	
13924	44292	A	14006	221	852	NSFLMVGFPPFSL/CAAFDTKT GLRVAVKKLSRPFRLPDGYYTE FNIYLLFNFYLTSSAV*VVLSH SVVIECLLSIRHCSRYFRKSSD KNFLRGSRLLCNFSLISRYLVTH LMGADLNIV*RYR*YK**FFK MNSPFLPLPVGELIMHHKVDP VCFVFFSLPVYSK*QFVCSSAL *ILDFGLARHTDDDEMTAKGQPE CFVRWACAS
13925	44293	A	14007	55	784	RHIQDPASQRLTNWNSPKSVLV IKMMDASLLQPFKELCTHLM ARGAGGGHDARSLLTAPVSRE PPCRRVGSAGGMSRLALCFQEN MIVYVEKKVLEDPAIASDESFG AVKKKCTCFREDYDDISNQDIF ICLGGDGLLYYASSLF/QGNAA VVLRSRLKVRVVKELRGKTA VHNLGEGKSQAAGLDMDVVG KQAMQYQVLNEVVIDRGPSY LSNVDDVYLDGHLITTVQGDGVI VSTPTG

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13926	44294	A	14008	155	1592	PESRHQCFSDRSANFLTMEMEQ EKMTMNKELSPDAAAYCCSAC HVGDETSYNNHPIRGAKSRSL SASPALGSTKEIRRTSLHGPCP VTTFGPKACVLQNPQTVIMHIQD PASQRLHVEQRPRTVLVIKKM RDASLLQPFKELCCTHMEENMI VYVEKKVLEDPAIASDEISFGA VKKKCFCTFREDYDDISNQIDFII CLGVDGTLTYASSLFGQPSPP VMAFHLGSLGFLTPISFENFQS QVTQVIEGNASCCSGSRLKGQ GW*RLRGKKTAVHNGLGKEK G/SQACRPGTMDVGKA/QAMQ VPRS*NEVVIDRGPSYLSNVD VYLDGHLITTVQGDGKARSTV LGP*ASLGRE*RLRLSLSGVIVS TPTGSTAYAAAAGASMIHPNVP AIMITPISRSLVPTAGGPHLSLL DPQIMLSPEARNAGGGPFWKP WLRLLLSRPSISITTSYCLPSIC VRDPVSDWFESLAQCLHWN
13927	44295	A	14009	327	466	
13928	44296	A	14010	2	196	
13929	44297	A	14011	923	1776	WRKCGCETAGSASATRAAATE KMEAPRNKMRDQENSAWRN AVPGP*E*RQPEEFPRITSILAEP TVLSRRKCRPSEKRGSAATEKFG ATSAVTENPPLGAAGERANKTL GAATVPTLGP RPMEKGGTR CPSTL*PSVQERQEPSPSGNHPE TQKIEFAGRRVTFQHRWATTLR TRISGTGASPRDRSAFFGFPWC G/AAQPSDEESTPATQEEAQAQ AGVAAAASSEEPGHCAPRPPHA PRSA LFEDWSREPERSDDGDL ECRRPATEPWRPPGSAWRLPCA A
13930	44298	A	14012	568	1223	SARGLLPGSGPLSHAGPQLQVE WFGCLPPDSTLELVVCGTVAI SRVRMSAVCVLRTWS/RNAG/Q L/CFTVFQPCSNVHVL/KGPNY VCFGGYPSFKYSHP/HNLFKTI NA VCGQLVQRFDPDTEEGIRK VTV/KCYVKEGDTV/SQFDNIGK VQSDKASVTIASPYDGV/RLK* HSLDDIAYVGKPLVNIEIEALK GTVNLFYQIDYCPFFVIGSQLK



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13931	44299	A	14013	5	296	LFSRVPSKGPPRYHHTSSRG*TR AD*LISS/IGNS*AHCIPSGLQGM LNLLPTPRAPVRPEPPRRAPPPA PRRPVPFDHPRACGTGRQLHLQ PRCGIH
13932	44300	A	14014	1	376	MQAVLLTVLQKHNQSVIYWY MKYIYYEGLVIMDDYDYVIMD YMTMETEKSHDLQAGGPGKPV VQFQFKPKILQASRGNGVKSWS KSKGLRTRCANVQGQENREGP AKHSFPFLCLFVLFSSSTGRMIPN HTGDTSKVIAGTEERGVPKKVT LKFDACAIDRPWAHQLDCTY HFKGSNDEHDSRLHTNAG*L*L C/RLWIT*LWRLRNPMICRLEA QESQWYSFSSSPKSCKPVEAMA LSPGPSPKA*EPGVLMMSKGRKI GRAQLSIHLSSAFLFFSAPQOVE
13933	44301	A	14015	1638	2289	VEKKKKPMSAPALRLPLDTKLF TLVYVSETKMAVRVLTQTVP WPRPVALLSKQLEDEVSKRWPP CPKSLVAIALLAQEAADKLTQR NLNIKSPCAVVILINTKGHH*LM NARLARYQSLCEHPRITLGLSL QHLPNATFLPVSESPVKHNCVE VLDSVYSYVGPNNRHDPLNISR LGAVTWMGSSFHQLQSDTLK KTTSPGSSHTRKLGTGPRTAEA
13934	44302	A	14016	1	675	MAPPLRLPLARLRPPGMLLRALL L.L.L.L.SPLPLGLREGIGELITPIGT SLPDLDPARRRWEIGIGRVGSE VADLCPGKEGGKVPEAEKEGV WCFSELSFVKEPQDVTVTRKDP VVLDCQAHEGVPIKVTWLKNG AKMSENKRIEVLNSGLYISEV EGRRGESQDEGFYQCLAMNKIF *AILNQKAHLALSRIGST*RRRP DRP*EDEAFVMTTHCFQDLLTS
13935	44303	C	14017	18	329	
13936	44304	A	14018	391	895	WASSDTPTGFTQRWRPDWAGG GGGEERGDGTGVVWEGEKVY FRFRVTGGSSFPSPAVLVRAPN TGMPKLTYYIQT*GPLGERGKEP VPPNVTLPQTFEGGLNASVVRK TEIPSPSPPPVCYLRAAERQ/PA GGSPQAKWRAASSPPPLPPVH LPPPPPPPPPPPPPP
13937	44305	B	14019	1	1110	

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13938	44306	A	14020	282	710	YPEPQGWVVAHTVQYPIHIQPL KPGPRGR*SIMDIQVPPKEGGV LILKNSSRLNNSWTQGCQLISA FSPTSSLPGTPWSNVGYPYKIAP ITSFGE/PFIRVIWKQLPSWSIIQ V/SHKQ*QIHRSVDIGWSPGQEC GPKGCFV
13939	44307	A	14021	1	1416	MIILDAEKAFDKIQQPFMLKTL SKLGTDTGYLKIIRAIYDKPTAN IILNGQKLEAFPLKTGTROGCP SPLLFNIGLEDLARAIRQEKEIK GIQLGKEEVKLSLFADDMIVYL ENPIVSAQNLLKLISNFSKVS KINVSQSAFLYTNNRQTESQI MSELPFTIASKRIKYLGIQLTRD VKDLFKENYKPLLKEIKEDTNK WKNIPCSWVGRINIVKMAILPR DIDQW/NRTEPSEIMPHTYNYLI FDKPEKNKQW/GKDSLFFHKWC WENWLAVCRKLKLDPLTPYT KINSRWIKDLNIRPKTIKLEEN LGITIQDIGVGKDFMSKAPKAM ATKAKIDKWLILKLSFCTAKE TTIRVNRQPTTWEKIFATYSSD KGLISGIYNELKQIYKKKTNNPI KKWAKDMNRHFSKEDIHAAK KHKMKCSSSLAIKREMDIKTTMR YHLTPVRMAIKKSGNNRCWR GCGEIGTL
13940	44308	A	14022	1	3450	
13941	44309	B	14023	1	3171	

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13942	44310	A	14024	1	2433	MRTKTQHTRISGTHSKPVCRGK FIALNAHKRRQEKSIDTLTSQ LKELEKQEQTHSKASRRQEITKI RAELKEIDTQKTLQKINESRSW FFERINKIDRPLARLIKKKREKN QTDTIKNCKGDITDPTEIQTTI REYYKHLYANKLENLEEMDKF LNTYTLPRLNQEEVESLNRPTG AEIVAISSLPTKESRTGWIHSRI LPEVQGGTEKEGILPNSFYEASII LIPKPGRDATKKNFRPISLMNI DAKILNKILAKRIQQHIKKLIH DQVGFIQGMQGWFNIRKSINVI QHINRTKDKNHMISDAEKAF DKIQQRFLKTLNKLGDGTYP KIIRAIYDKPTANIILNGQLEAF PLKTGTTRQGCLPPLFNIVLEV LARAIRQEKEIKGIQLGKEEVKL LSLFADDMIVYLENPIVSAQNLL KLISNFSKVSGYKINVQKSQAF LYTNNQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLKEIKDDTNKWKNIPCSWSVG RINIVKMAILPKNWKKTTLLKFI WNQKRAHITKSILSQKNKAGGI TLPDFKLYYKATVTKTAWYW YQNRDIDQWNRTEPSEIMLHTY NYLIFDKPEKNKQWKGDSLNF KWCWENWLAICRKLKLDPLT PYTKINSKWIDLNVRPKTIKTL EENLGITIQDIGMGKDFMSKTP KAMATKAKIDKWDLIKLSFC
13943	44311	A	14025	1	1023	MGAIFYDKPTANILNGQLEAF PLKTGIROGCLPPLFNIVLEV LARAIRQEKEIKVIQVGKEEVK LSLFADDMIVYLEDPIISAPNLL KLISNFSKVSGYKINVQKSQAF LYTNNRQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLKEIKEDTNKWKNIPCSWSVG RINIVKMAILP/KAICRKLKLDPL LTPYTKINSRWIDLNVRPKTIK TLEENLGNTIQDIGMDKDFTSK TPKAMATKAKIDKWDIIKLSF CTAKETTIRVNRQPTWEKIFAI YSSDKGLISRIYNELKQIYKKKS NNPIKKWAKDM/NRHFSEKEDIY AAKRHM
13944	44312	B	14026	1	2206	
13945	44313	A	14027	1	1689	

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13946	44314	A	14028	1	2523	MKQFLLYLDESNALGKKFIIQDI DDTHVFFVIAELVNVLQERCHTR LGYTEFLVAVRVTFGLCVAV TLHLKYQILIRGLLEMMFSFDA DILKQLPVTVPGLFPASLSPSSL LGNSPPSWLRHNSSEKVSVAVSS PSATKTLSTGIGKIDPGHKEMA EESSELLKNKMQAPPLSRCPESQ KCQHQRLRLHHWKPSVRHQVKR RSPAVLRSAMPADCPAVLEAT TATHPEKGTALSKHLPSDDSMS LKVDVEALENSPGATYIWKGG KVTDRSQPKEQKGDLKKKKK GKLPKNYDPKLTDPDERWLPM QECSEFYQGRKKGKKKDQMGK GTQGATAGASSELDARKTVSSP PTSRPGSAATLSASTSNIIPRH QRPAGAPATKKKQQKKKKKG GKGFVPLREITVVKVDTLVVFG ILEERLSVFHIIQYDTSYFPSTVDI EDHECAVWLLLRKSKSDDKTT RLEAVREMSETHHWHDAEKAF DKIQQPFMLKTLNKFVGVDGY LKIIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPLSPLLFNTV LEVLARAIHQEKEIKGIQLGKEE VKLSLFGAGDIIVYIENSIVSAPKL LKLISNFSKVSEYKINVQKSQAF LYTNRRHTESQIMSKLPFTIATK RIJYLGQLTRDVKDLFKENYK PLLNEIKEDTNWKNIPCSWVG RINIMKMAILPKVIYRFNAISIKL
13947	44315	A	14029	1	2868	
13948	44316	A	14030	1	3099	MGELITPLSTLDRSTRQKVND TQELNSALHQGLDIDYRTLHP KSTEYTFFSAPHHTYSKIDHILG SKALLSKCKRTEIITNYLSDHSA IKLELRINKLTQNRSTTWKLN LLLNDYWIHNEMKAEIKMFFET NENKDTTYQNLWDAFKAVCR GKFIALNAHKRKQERSKIDTLT SQLKELEKQEQTSHKASRRQEI TKIRAELEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
13949	44317	A	14031	2	3419	

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13950	44318	A	14032	1	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDYRTLH PKSTEYTFSSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRINKLTONRSTTWKLN NLLDDYVWHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRKQGRSKIDT LTSQKLEKQEQTHSKASRRQ EITKIRAEKKEITQKTQVKINES RSWFFERINKIDRLARLIKKKR EKNLIDAIKNDKGDITDPTIEQ TTIREYYKHLYANKLENLEEM DKFLDTYTLPRLNQEEVESLNR PITGSEIVAIINSLTTKSPGPDG FTAEFYQRAIRQEKIKGQLGK EEVKLSLFADDMIVYLENPIVS AQKLISNFSKVSQYKINVQKSK AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWKNI PCSW VGRINIVKMAILPKVIYRFNAIPI KLPMFTFFTELKKTTLNFIWNQK VRAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNYL IFDKPEKNKQWGKDSL FNKWC WKNWLAICRKLKLDPLTPYT KINSRWIKDLNIRPKTIKLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTNRVNRQPTKWEKIFATYSSD
13951	44319	A	14033	845	1616	ARAEVKLSLFADDMIVYLENPII *ARAEVKLSLFADDMIVYLENP IISAQNLLKLISKFSKVSRYKINV QKSQAFLYTNNRQTESQIMSEL PFTIATKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWGRINIVKMAILPKVIYRF SAIPIKLPMFTFFTELEKKNWLA CRKLKLDFFPIPYTKINSRWIKD LNVRPKMTKLTLEESLGNTIQDI GIGKDFMTKTPKAMATKA/KKS FCTAKETTIRVNRQPTWEKIF AIYPSDKGLIS

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13952	44320	A	14034	707	2878	TLMQKSSIKYWNQSSSTSKSL STMIKWASSLGCKAWFNIRKSI KVIQHINRAKDKNHMIIIDAEEK AFDKIQQPFMLKTLNKLIGIDGT YFKIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVLARAIRQEKEIKGIQLGKEEV KLSLFADDMIVYLENPVSAQN LLKLIRNFSKVSQYKINVQES/Q AFLYTINRQTESQIMSALEPLTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNK/WKNIPCS GIEGRNIVKMAILPKNWKKTTT RFIWNHAKRACIAKTILSQKNKA GGITLPDFKLYYKATVTKTAW YWYQNIDIDQWNRTEPSKIIPRI YNNLIFDKPDKNKKWGKYSLF NKWCLENWLAICRKLKLDPL TSYTKINSRWIKDLNVRPKTIKT LEGNLGNTIQDIGMGKDFMSKT PKAMATKAKIDKWDNLNKLKSF CTAKETTIRVNMQPTWEKIFA IYPSDKGLISRIYNELKQIYKKK TTNPPIKKWAKDMNRHFSKEDI YAAKHKMKCSSSLAIREMQI KTTMRYHLTPVRMAHKKSGNN RCWRGCGEIGTLHCWLDCKL VQPLWKSVM*FLRNLELEIPFD PAIPLLGYPNDYKSCCYKDTCT RMFIAALFTIAKTWNQPKCPTII DWIKMMWHIYTMYYAAIKND EFVSFVGTWMKLEIIILSKLSQE
13953	44321	A	14035	869	3869	RHKKPFKKLTNPGAIEQTIREY YKHLAYANKLENLEEMDKFLNT YTLPRLNQEEVESLNRITITGSEI EARINSLPTKKSPGPDGFTAIFY QRYKEEMVPFLKLKLFQSIKEGI LPNSFYEASIIIPKGRDRTTKE NFRPISLMNIDAKILNKILANQI QQHIKNLIHHDQVGFIPGMQ WFNICKSVNVIQHINRTKDKNH MIFSIDAEEKAFDKFQQLFMLKT LNKLGIDGMYLKIIRAIYDKLT ANIILNGQ
13954	44322	A	14036	2	99	

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13955	44323	A	14037	1	914	TVTVIHTVARVGNLDIQQRKS ELFLSLVVCEAIKNEMNMVLMKS SPVDLVTATDQKVEKMLISSIK EKYPSHSFIGEESVAAGEKSILT DNPTWIIDPIDGTTNFVHRFPFV AVSIGFAVNKKKKVDETYLG VKETCFPLQIEFGVYVYSCVEGK MYTARKGKGAFCCNGQKLQVS QQEDITKSLVLTELGSRRTPETV RMVLSNMEKLFCEIPVHGJRSVG TAAVNMCCLVATGGAIDAYYE MGIHCWADVAGAGIIVTEAGGV LMDVTGGPFDLMSSRVIAANN RILAERIAKEIQVPLQRDDED
13956	44324	B	14038	91	1959	
13957	44325	A	14039	28	152	LPSPSSKDTDS/AASCCAPRGRA KGSVSNRSLSPFPSSVPLP
13958	44326	A	14040	35	879	GSQCSPPPASRCGSCSSAPSRH CPCRDPEPAVAGLARTPVLTTK TNPSPPARTGLNAPSMGTSLI/P ALCCFPLYQGSTELQCKAP**LP SPSSKDTDS/AASCCAPYFLVLL KVLSSVDNSSIWCSAGPPAQ/S SLYTIPMSSMSAKNCSVLRSGT WASFTCS*GSQRVSLGTPEALG TEDHTSRSLGHSVCHVDLSPA TASCSFQTASSEVSPATASCSF QTASSEVSPATASCSFQTASSE VSPAATASCSFTFSFFVCALWF GICPSCSAAVLST
13959	44327	A	14041	3	159	EHQCENPQ*NTGTPNPAAHQK AYPP*SSGLHPWDNRQKQPHD YLNRCRKGL
13960	44328	A	14042	54	245	GGGGGEAEDRLREPETEKALSS SL/RRAPDQC/RALIMQLFQAHC FFLST/QATAALQAHYAHIFPSK
13961	44329	A	14043	903	1205	WDVSQNNKSYL*QTHSQYHTE WAKTGSIPFENWHKTGMPSLT TPIQHSVGSSGQGNQTNREP NH E*TPIHNCFKENKIPRNPYKGC EGPLQGEQLQITAQ
13962	44330	B	14044	1	339	
13963	44331	B	14045	1	1547	

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13964	44332	A	14046	807	1440	NTGKPNPAAHRKAYPPRSSRLH P*DLQQTPTDLQLSDLTGPKRT NKQKGIASPSKTRISTPKPHLQ ANAQRFCFHQACVTRVPKGST KHGKEQLVPATAKTQIVKNIN AMKKLHQLTEIQTIREYHKHL YANKLKNLEEMDKFLDYTLT RLKQEEVESLNRPMGSEIEAII SLPTKKSPGPDGFTAKFYERYK EELVSFLKLFQSEIEGILPNSF YEASHLIPKGRDITKKENFRPI SLKNIDAKILNKILANRIRQPIEK LIHHDQVGFIPMKGWFKCKCS INVIIHINQTNNDKNHMIISDAE KAFDKTQQPFMLKTLNKLGTIR QKKEIKGIQLGKEEVKLSLFAD DMIVYLENSIVSAQNLLKLISNF SKVSRYPKINLQKSAFLYTNNR HMESQITSELPTITDKRIKYLGI QFTRDVKDLFKENYKLLNEIK EDTNKWKNI PCSWIEESIS
13965	44333	A	14047	603	764	LPLFLIEYPLFLSLA*LPWPKLPT LC*IGVVREGIPVLCFCSKGMPL VFAHSV
13966	44334	A	14048	1566	1865	MQSIRKTIGIHAKYDKACRNGE DICLRETNSAADTQAKRV*SGP PANSNRPAEAGPDC*KEN*QTE RTSTPKPHLYVTIHKDQRGTQLL TNNGTKLDRE
13967	44335	B	14049	I	1932	
13968	44336	A	14050	711	1575	TRKFRNRG*IP*HIHPKTKSGR SRIFNRPTGSEIEAIHNSLPTKKS PGPDGFTAIFYQRYKEELTNIL DEHRCKILNKILANGIQHDIKKL IHDDQVGFIPMGQWGFNIRKSI NVIQHVNRTRDKNHHIISDAE KAFDKIQQPFMLKTLNKLGDIG MYLKIIIRAMYDKPTANIILNGQ RLEAFPLKTGTGRQCPLSPLLFN IVLEVLAIGQEKEIKGIQLGK EEVKLSLSADDMIVYLEKPIISA QNLFLKLISNFSKVSDTKSMYKN HKHSYTPITDKQRAKS



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13969	44337	A	14051	1	1579	MQGWFNVNRKSLNIIHINRND KNHIIISDAEAFDKIQQPFML KTLNELGIDGTYLNIIRTIYDRP AANIILNVQKLEAFPLKTGTRO GCPLPLLFNIMLEVLARAIQE KEMKGIQLGKEIKFSLFADDII VYLENPIFSAPNFKLISNLSKFS GYKINVQKSQAFLYIINRQTESQ IMSELRFATIATKRIKYLGIHLTR DVKDLFNENYKPLLNEIKEDTN KWKNI PCSWGTGSINIVKTAIPLK VIYRFNAIPIKLQLTFFTELEKTA LKFMWIQGYSNQNSMVLTLV IPRKMRS AVELQQTSTDQLRD LTVRKKTNRKATASTSQKH LHQNPICRSPTSKTKEVGFRSV ITNFSELKEDVRTYHKEAKNLE NRLDEWLTRINSVEKTLNDLKE LKTMRDLHDACTSFNRRFDQ VEERVTVTEDQINEINDGENG KLENTPDIIQENFPNLAISRP TFKFRKYREHYKDTPREEQPDT* LSDSPRLK*RRKC*RQPERKVE LPTKGSPSD
13970	44338	A	14052	50	1105	TRKSRRNG*IPGHIYPPKTKIQE EGESLNRPIGTGSEIEAIIINLPTK KSPGPDGFTAKFYQSTNNKNH MIISDAEAKAFHKIQQPFMLKTL NKI.GIDGTYLKIIIRAIYDKPTAN IILNGQKLEAFPLKTGTROGCPL SPLPFNIVLEVLARAIQEKEIN CIQLHNEEVKLSPFADDMIAYL ENPIVSAQNLLKLISNFSKVS GYKINVQKSQAFLYIINRQTESQ MSELPTIATKRIKYLGIQLTRD VKYLFKENYKPLLNEIKEDTNK WKYIPCSWIGRINIVKMAILPKV IYRFNAIPIKLPMTLSSQNWKKT TLKFIWNQKRARIKSISSKKN KAGSIMLPDFKL
13971	44339	A	14053	1	764	MQGWFNVNRKSLNIIHINRND KNHIIISDAEAFDKIQQPFML KTLNELGIDGTYLNIIRTIYDRP AANIILNVQKLEAFPLKTGTRO GCPLPLLFNIMLEVLARAIQE KEMKGIQLGKEIKFSLFADDII VYLENPIFSAPNFKLISNLSKFS GYKI*FPLFLIEYPSFLSLA*LPW PALPTLC

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13972	44340	A	14054	1	344	MGINQRRKAENSKNSASSPTK DCSSSPAKEQSWTENDFEELTE VGFRQQANAERFCHHQVCPKR APEESTKHGKKQ/RSISHCKNM PNCKDHRCYEETASTDLSAETQ QQKREF
13973	44341	A	14055	301	370	DDGVF*IDNHVICKQRQDFDLFS
13974	44342	A	14056	1	1418	MVREGFPPEEVTFLKNELEISK GQQMGKNIPDTGASSAKALGE RELGTLDKMKNSPSDGSKKDIR THRKEAKNLEKRLDEWLTRINS VEKTLNDLMQLKTMARELHDA CTSFNSQFDQVEERINKIDVRLA RLIKKKREKNQIDAINDKGDIS TDPTEIQTITREYYKHL YANKL ENLEEMDKFLDTYTLPRLNQEE FESLNRPIIGSEIEA VSNSLPTKK SPGPDGFTAIFYQRYKEELVPF LLKLFSQIEKEGILPNAFYEASII LIPKPRDRTTKENFRPVSLMNI DAKILNKILANRIQQHIKKFIHH DQVSFIPRMQGWFNICKSINIHH HINRTNDKNHMIISIDA EKA FDR IQQPFMLNTLNKLGDGMYLKI RTIYDKPTANIHLNGQKLEAFPL KTGTRQGCLPS/ATPVQHSVGS SDQGSQARERNK GYSIRK*GSQ IVSVCR*HDCIFRKPRLSPKSP
13975	44343	A	14057	1240	1596	CYSFLFVRCPSDSQVPQLQVC/C EFAGGPLQTVFAWVSPAEEVE MFLQG*RPFYMSY/TSFEMAL MKVWTMVRTSASPVGDVFRGR GWSPFFTSTVGALT VFGVSPGS CRSSPLPSERLWV
13976	44344	A	14058	507	971	PANQKKSRTTTRIHSQILPEAQR GAGTIPSETIPINGKRGNNPKLIL *SQHHPDTKA WQRHNRKREFY TDIPDDH*CKNPQ*NTGKPNPA AHQKAYPPRSSWLHLWDARLV QRTQISKRNSSYKQNRQKQPHD YLSRCRKLGLQNSAALHAKNS
13977	44345	A	14059	561	758	
13978	44346	A	14060	2364	2663	DGQLTLVSLNHYSLAQSCY* DGEFCFLHCSASPFL*EGAQST ACTAPPECFASDLGAV*LPQHS WCSTLLLEGAPWPGTLGTAPQF QHRKLGTLNLAG

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13979	44347	A	14061	1	64	MPIGKVGEEYIKGLTRATKESE QQSSALELSSDRVYLNEKEPGD QPWNAAFVFRGCCGVALALRPP HLGWGEPRWAGFRGAFGFPFS TLNPSNWSLTLIIQGCKQEGFYS PSMRPRVVPKRGSA PKVRAEEN AALPSRCPPGPLPVAQP/TGPAD GGSCEQCPCSCGCCQLPPPLP WFPR*TPCDKRV
13980	44348	A	14062	1	774	MFVWSNVEGHSVAMFPWYSIP FLNPPCSHTRPSNLPTQWPPTR ENNLPWSQLLLTSIHQAQLSA LHKEQGSSEKDGSRPNKWDK DHIRCPMSAVMIFSKRHQAL/V RAHQGHFNQDNWTVSQMLSK WWYTLGPNERQKYHELAFQAT AALQAHYVHIFFSKGRWELLH GSQRLDWGRQQLKLLGQQGQ DVLHTNLGKEENSSCWGYKME CEEFGPGQGDGCLGGVHAPL LSPEGLDSEQNTLIMDIFHCA KKLP
13981	44349	B	14063	1	753	
13982	44350	A	14064	2	1457	YPRRRPSRAGVLAGPAVLAGPP SSGRRPRRAAFPAEPFSARRS PRRAAVLAVPPSPRRRPRRAA VLAAPRVLAAPPSPRRRPRPP PSSPRRRPRRAAAGSLPGAELP QSSRLAAHLAAD*PDS*IAAGA VPRGWGLTIMAEGKEEQVT YVDGSRQRAYAEKPPVVKTI CTV/SGHSRHNSSSGM*/SSPNSP /IPFQFTFQIPSLQAALWLCL*V TWHFFVR*PVLSSRHCFSPGGLF SLSLQSGACGPAGSLQAEFVALP PGGQSRLHRTRAS*VPGAFQEK CPLERVWPFHPSKQHPRNGLAF PLP*APQRTQPAEDTLPRHPEM GLILSQGTAG/PGRECATQLPA QHSHA EVLHFGGAMSGQLSLV GPQDSKRTARLTDSQLHLSPT* QPPGLTEGTSLEQG**S*MGWM VGVIAGAPSGWSGSGPSEGTP LFSSPA*LPWPELPTLC*IGVVR EGIPVLCQFSKGMPLPFAHSA
13983	44351	B	14065	72	1235	
13984	44352	B	14066	1	2715	

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13985	44353	A	14067	50	1304	TRKFRNRNG*IP*HIHPPKTKSGR SRIFNRNPTGTGSEIAIINSLPTKKS PGPDGFTAIFYQRYKEELTNIL DEHRCKILNKILANGIQHDIKKL IHDDQVGFIPGMQGWFNIRKSI NVIQHVNRTRDKNHMIIISDAE KAFDKIQPPMLKTLNKLIGIDG MYLKIIIRAMYDKPTANIILNGQ RLEAFPLKTGTGRQCPLSPLLFN IVLEVLARAIGQEKEIKIGQLGK EEVKLSADDIMIVYLEKPIISA QNLFKLISNFSKLSGYKINVQKS QAFLYTNNRQTESQIMSELPFTI ATKRKYLYGLQLTRDVKDLFKE NYKPLLNEIKEDTNKWKNIPCS WIGRINIVKMAILPKCKTVGLLS NISTHKSVAHVAVEAGGIPSLIN LLVCDEPEVHSRCVILYDIAQ CENKDVIAKY
13986	44354	A	14068	1	1155	MFVWRNVEGHSAVFPWYSIP FLTPPCSHMRPSKLPVTQWPPT RENNLPSWQLLLMSVHQASL SALRKEQDSSSEKDRSPNKW DKDHIWWPMSAVIIFSKQHQA L/VRAHQGHPPNQDNRTISQMLS EQWYTLGPNEMQKYDLAFQN VEARIRY/CHRPKRARFLSHAS PPWRQLPAAGAEASGAWNLP GGG*HDYNRCSVPVFRTEVSTR PRPSEICGLTQE*TLSSAKSQVG NTFGAGHTISDTTTCGLCTSK AAIEVPEADTLPHICSWHKGEE CGLRGPEPSPPPRPSLAARVSA GRGALRRRRRPEVPPSRAPRSA ATATPANEQRAVADVGQWAR ARGGRVRAAGRSGLLRVKMM KMKTVMIIHFLMKDEYIFSS
13987	44355	A	14069	1331	1584	SLQRKKAARFASSTVPRRPQGI PIHSFNVPPVGSRRLLKAPLVFIGP G*ITLNRIPYLPHSAARDPFTWN TFSFLLPCEEVPT
13988	44356	B	14070	1	1248	
13989	44357	B	14071	1	459	

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13990	44358	A	14072	1	2156	MGKKQSRKGTGNSKNQASPPPK KERSSSPAMEQSWMENDFDDL REEGFRQSNYSELKEEVRTGK EVKNLEKKLDEWLTRITNAEKS LKDLMEKTTARELHDECTSLK RVSVTEDQMNMKREEKFREK RIKRNEQSI.QFIWDYVKRPNLH LIGVPESDRENGTKLENTLQDII QENFPNLVRQANIQIEIQRTPQ RYSSRRATPRHIIVRFTKVEMK EKMLRAAREKGRVTHKGKPIR LTADLLAETLQARREWGPIFNI LKEKNFQPRISYPAKLSFIDRST RQKVNKDTQELNSALHQADLI DIYRTLHPKSTEYTFFSAPHHTY SKIDHIVGSKALLSKCKRTEIIT NCLSDHSAIKLELRICKLTRNHS TTWKLNNLLNDYWVHNEMK AEIKMFFETNENKDKTYQNLW DTFTKTVCRGKFIALNAHKRKQE RSKIDTLTSQLKGLEKQEQTHS KASRRQEITKIRAEKIEIETQKT LQKINESRSWFFEKINKIDRPLA RLIKNKREENQIDAIKNDKGDIT TDPTEIQTaiseyYKHLyANKL ENLEEMDKFLDTYTLPRLNQEE VESLNRPIGTGEIAIINSLPTKK SPGPDGFM/RRILPEGQGGAGTI PSETVPINRKRGNPP*/PHFM/SA SIMLIPKPGRDTTKKENFRPISL MNIDAKI/RQ*NTGKPNPAAHQ KAYPP*SSGLHPWDARIVQLTQ

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, v=possible nucleotide insertion)
13991	44359	A	14073	3	1794	AMLPMELGCGPLPEPLPVGCSR FSLFK*QTCISTVP/GYMVTAQS MSSTPPPPSPSTLPSSPPPPPLPQ PLPPPPSPPTLSSLSSPSPPRPPL VSPSTLPSQPSSPQLLPSSSP SLSPPPPPSPLPSPPSAIPLPPP SPQPLPPPPSSPPSLPSPLPPP PLSSSPSPLSPSPPPPPSLPPS PPPSPPPPPQPPSPSSPLSSPP LSSSQPSLLPPSSLPLPSPPSPL LPLSLPLSISPP*LSLLSPLPPSPS LPSSFSQT* TIGQCFSL/VMWH VAPCTYLALAGNTLMAWPLMS ASSKASGGVSMFVWRNVEPCS VAVFSWYSVPFLTPPCSRVRPS NLPVTQWPPTRAKNLPSRQLLL TSVHQAQSLSALCKEQDSSSEK DGRSPNKWDKDHIIWPMSSGG HDLQQAAPGPGRAHQGHYPYQD NWTISQILSERWYTLGPNEMQK YHDLAFQHMAGEDIASDEEHM VIHEEEGVMSLLMTALAPLTL ISSSRIFGKVYGPPTSSSYTSD ASSSTLAPTSFLLGPGAFKAQES GEEAEDGLRELETEKALSSSL/R RALDQ/*LALIMQLFQAHCFFLS T
13992	44360	A	14074	1	2496	MLLSIDAEKAFDKIQPFMLKT LNLGHGVEQHHLHTTNDVDE EDLSDAASKGDDFALSEQSQD AHFLQPEAYGLGEGAETAATGT AHQGNHVRVEECGRSLCGCVP LVLHPLPDPSLQPHAAQGPASH SVACNQRKQPAKLPAVAHERP PGGTGSVDPRPPGATCPESPG PATPHTLGVVEPGKSSPPTMEE EPWAPQGSPCWTAQSLSALRK EQDSSSEKDGSRPNKWDKDH WWPMSALMIFSKRHRQAL/V
13993	44361	A	14075	4317	5099	KMFVFLCISAQLSLQCFRGSFHF IKIYDFSQFLFLFELPYLLLLN HFKMLELVLQQGHPNQDNWT VSQMLSKWYTLGPNRQKY HELAFQVKVAHCKND*KKFSS EAKPTSQGLAGGNKGSWEWS MSETGTATAPGVSSSELLSVAQ TLQSSDTKSSFCGAEWGHP*GI GCDDVIADDGFSTTDLDLKFKE WVTDAESGDNSGEEPEGNGKFG GKVFAPVIPSSFT/HCRPLLDPE/ PPGSPDPPAAFGKVYGPPLSSSY

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13994	44362	A	14076	1	637	MSRVGSCRWVCGLADFKNKGT DLCDKSLHNRELSAERPLNEQI AAEAEDEKIKKTYPPENKPGQSN YSFVDNLNLLKAITEKEKIEKER QSIRSSPLDNKLN/V/EKDVDFNQ EFGKLIDGYDSTKEWDVWHKF QDIPNLVVGTA FNVDGNGGF VVHWNKKEFHFTSSTEVMFH QLRKLSDKQVDHENDADRED EEHSQEDRERGLHMKLDH
13995	44363	A	14077	448	464	KKRA*GSVSQRFP AET*LAD*VI NTGSQEA KRREQR
13996	44364	A	14078	179	382	NTPNQRSVASNR FVKCTHQHS VKCTQSALCKMHQSAGFLKVD NHRED*KKGHS DRAKTEHGRG QIRE
13997	44365	A	14079	697	1654	PKPSVGRMGFLGTGTWILVLV LP IQAFKPG/GSQ/DKSL/H**ED LSAERPFELNRLLEAEGRTFK KTYPPENKPGQSNYSFV/DNL NLLAITEKEKIEKERQSIRSSP LDNKLNVEDVDSTKNRKLIDD YDSTKSGLDHKFQENETADNSF SQEEEPVVAGEDLPPSPQESD VQPVQPEEVSARDFLQRLDLQI KLSTQA AKKLKESSSLERMRE ETLSPTVPTKRWDTRILLIGAF YRVLIGAFYRVLMGAFYKPIAS YRALIGVFYRALMGAFYNPLV RQKSSPRPHSTQEVQLASPLTN TQITYYVIFTV
13998	44366	A	14080	72	1117	ILENHLSDRVAEGGPLQGLRLG VQGEAVPPGLVHQRGGLGPLD GELIGSVGQQVSDVEGAGSHR G*RHTGRTPAVSAGPAA*SATH TAPMWLAGWYEPAPQGPVLV SPPTPFQGT RQASWCSA*ARCA GSWWH*HQTPGGA*RV AAPAP SWSRSCP*RPTRSPAAAPAPSR PGRVGLATGAGHPAQHGHGR AVPTGPRAAGAGSWSELCPPSS CAGTSRGR*AGTRR*AAPAGSG RPGPGA WAGPRCSRSTYAAAA CGRGGA*AGADSGPRSGTHAG HCGARCRSSTPLVPAAAGHLPP PGPGRTGD CPASSCPGGLPHG CSLSGSWGEGWVSAARQAGLP WAVA
13999	44367	A	14081	2	269	
14000	44368	A	14082	1	591	
14001	44369	A	14083	2	477	

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14002	44370	B	14084	237	419	
14003	44371	A	14085	2	1220	LPPGFVMAAAAAARNHVVWG TETGILKGVNLQRKQAA NF TA GGQPRREEAVSALCWGTGGET QMLVGCADRTVKHFSTEDGIF QGSETLPVGEGMFRGLAQTDG TLITCVDSGILRVWHDKDKDTS F*PTPGTESGPGVCGCAKTQA HPHVVCHRLGKRMLKIWDLQ GSGNLCFKAKNVRNDWDLR VPIWDQDIQFLPGSQKLVCTGT YHQVRVYDPA SPORRPVLETT YEEYPLTAMTLTPGNSVIVGN THGQLAEIDL RQGRLLGCLKGL AGSVRGVAVHPSKPLT*PPVRL DRVLRHRIQNPRGLEHKVYLK VSIE/RALLLSGRDNLGG*APEP SKTQTRCP*EDTEDR*TLGDPW RQLPSGKLFVWSSPKELSKRD GERRSGLGPPADAPVPTL
14004	44372	B	14086	96	592	
14005	44373	A	14087	102	612	HCAGSPHSPRSLSGTLPGLPL WRHLRSPSAHRCTVGAPFWAG QDRSQLP*LAGRCGGRGPGSGNP GCA/PACGPAGVPGGRGLGGPR TRSSQALPAPGNEGLSTRASG CRGRTGSPSSASPLGLSCLPAG QGWGP/GSPCVSLPPTPWAPV RPEPPG*AAPPAPRRPV
14006	44374	C	14088	1	636	
14007	44375	B	14089	31	612	
14008	44376	A	14090	234	504	SFYHLGAGE*PGKSRVPIPFQS PWGPYQCGRARGGEVCHLQAV PPRGAGAARTLSGHPLGSPEQL PQGPAAELPGGVVPRSTPPCP
14009	44377	B	14091	1	924	
14010	44378	A	14092	11	354	RLSTSPDSSGAQLASPSGSHTRA AGGAACQSAVRSP/PEPSPWV DGTGCGGAGGARWGGSGCT GAHGVGGR*PGMAG/*GPEPCP EGRQLRPLAPVGCQ*REP/G*K NSMGETTT
14011	44379	A	14093	147	513	GSASGVVRLSRWARGLAGFRS EAADLRGECYSS*GSASGVVRL SRWARGLAGRSEADLRGEC YSS*KQRGPKELRSPAGFT*WIP /LPLQLVELPASPAPCAPTPQL SG*WDIGRRGAGGGARRGSG RTGALGVGGSGMAGCRSRA LPPREGS



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14012	44380	A	14094	418	1026	WNP HQGRW SCLPVRHALAF LSPWVIDGTGRHGAGGGALWG GSGRTGAHGVGGS*GMAGCR SRALPHGKA AKAR*EIER SASG/ TG TAGGPSTPSAATGPGAKSLI ARGQGWPAAPSAGPAKPTPT GNSSWPASAAGSSGSCSRLS/SP HLPAS*GSGLQWPWPAQKGAPTV QQQAEGLPRLPEEWISL PFLG HQGEHSGMA
14013	44381	A	14095	897	2111	PPLLQSSPNFFLICYP LWHNSHE NTHRTGRRGAGGARRGGSGR TGAHGVGGRRLRHGGLQVPSPA PWECS*GPARNRAQRRYHCSCP GLQSGLPHYSGYHT*PDEKEKN GREGOKLER
14014	44382	A	14096	1304	1922	KL NIGVIYSSEIPDSGAQLASPS GSGTRAAGGAVCQSCALRSHSS ALGWSMG/PGRRGAGGGARW GGLQRTGAHGVGGRRLRHGGLQ VPSPAPREGS*GSVRNPAQRRW AGTAGGPSTPSAATGPGAKSLI TRGQGWPAAPSEGPAPKPTPTR NSSWPASAARS PGSRSR/RLPPH LPAS*GSGLQWPWPAHYFEFFLP GQNAQTEVSY
14015	44383	A	14097	318	533	MVCFD GADCPWVVDGTGRRG AGGGAHRRSGRTGAREAGGR LRHGGLQVPSPARREGS*GPAS PAGCLAHL
14016	44384	A	14098	346	957	ARYTLHIPTRLGSPAGFTQWIPH RGC RW SCLPVRPRRALAFLSPW VVCSPVVDGTGRRGAGGGARR GSGRTGAHGVGGRPGMAGC RSRALPRGKA AKARREIERSAG G/TGTAAGPSTPSAAGPGAKS PFARG/LAGPAAPSARPAKPTST RNSSWPASAARSPGSRSWKMS LYMKKSASGQSAQWIAKMW KSPRFKPLWLTS
14017	44385	A	14099	124	663	SCLPVLRLALTFLSPWVVGNGTG RRGVGGGARRGGSGRTGAHGV GGRPGMAGCRSRALPRGKAA KARREIHSAGG/TG TAGGPGT PSAATGPGAKSPIAPGQQGWLA ALGINGAGERLFMKVAFSLKTC SLSCSYLRLLTLRGGSVH/LRG NLTVCKQPQALLRVVFIHQ RQ ADCGALPVP
14018	44386	C	14100	1	672	

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14019	44387	A	14101	3	1759	RPLRGWRRTRDARAPRRRCRG SHGARRCLRKTAATSRCCGAP GP/RSRPPSTGQAAEAGDW/PAG CNP*GGLRAADGPGSRPPRGS GLLCGGGGGGSSPVVHGTG RCGAGGGAPWGGSGRTGAHG VGGRLRHGGLQVPSAPQEGS* GSARNRAQPRWAGTAGGPSTP SAATGPGRDGEGETGAHVSA LKGTPTGETWPAHGLVPYISGDQ TCLIFKVTFFKAVVLKCGPQTTS STSISCPGSAN/SPSPAG*/GSSG CGSSSLCSAHSVQEDSQPQ*KR TGLQSVTYGRSGSSNEPRYHSD LPTSRSKLRNEDTFFGRKKLS EVQRTGQDPA*SHHTSSYTLPG L*TAEGKDRVENAA*KGSPNFQ RSGTFNPKGGARKTRQAWHPR APNCQAGTPPREGSSGPRTSL AAFRIPQEVVNFISGPITRAQR HGEPESPRGQTGSPPLGKTGSE GTDKSTGADKKSTGDRQEV EPTESQGLDRKPTGMDRRSTG NRQKVRQIGSPLGLNRKPNGT DKKSTRNRQEVRRRQSAGARQ ERAGSSTFLRLSALCGLLVDVN REQVAKQKWDLYSSRFTSGNR
14020	44388	A	14102	1879	2607	GKPSLSLHPGHKCGISRCNGNV SSRLRSPAGFTQWIPHRGCRWS CLPAPRCALALLSPVVDGTG RHGAGGGARRGGSGRTGAHG VGGRLRHGGLQVPSAPREGS* GPARNRAQRRWAGTAGGLSTP SAATGPGAKSPIARGQGQWPA APS/IGPPSPPPGTAGPQAPH AAPVPAR/PLPPH.PAS*GSLG PWPAQKGAPTVQGGG*RAPQM PPKWEPRQGRIVAFTEIVGVL
14021	44389	A	14103	2	272	GHWGMVNSPCRASATVSRGSP LPGVLPTSPSATSTCRMCHPR RCPLPFRRLSPPSLTPP/PGKPPL LPRPHSMPGLGLPLGGLPVFHP

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14022	44390	A	14104	101	1815	Q SARQLR PCP GAPSLAGVENRR K KTTNLTSLAAPDTQSTCGQSC GCLHSMGSSCMQHSYYTGFLR SLWPCRCRHS AFSGRRSEK D SKSVRRSGRSQNVPARPALTS PLTQSPGPLAPGAGSWRSQ LG TGTGVLWWQRESATGDFRTES ARSSDPSRRDWP GAKRKREEG AATVLWACATASTAIICQDNAI SPLKSGNSPSNHLWRPQGQLPP VLGLAQPKRWRPNLTTSPSPS RMMARPVD PQRS PDP TFRSSTR IISGKLEPMEATAHLLRKQCPSR LNSPAWEASGLHWSLDS PVG\ PCR P*GLRPSTHGAR/TFSGAR P GLGGYSPPEAMPFEFDQPAQ RGCSQLLQVPDLAPGGPGA A GVPGAPPEEPQALRPAKAGSRG GYSPPPEETMPFELDGEFGDD SPPPGLSRVIAQVDGSSQFAAV AASSHQCLSIHIPMPSVGRNG LLTKPPSTSRRGKLT KRDDMY Y FVFPFRSLNDMMHMLPFIEDSR WTHNLDINREQKTNP LAGPKG RPISTRQAAASTNSKTESIQIE KTEEAPFSLRYINNNRSM DPLN
14023	44391	A	14105	39	877	AGPGPRPLPPRSSEGGPGASISL CSEVPGPSCQGRFRGGRDAMS MPWREERSLLAGE*PS*GG*S GRGVSRKCS*PGRGPVPRPRL RSRPRAASSELDQNSPLDQSLHR TRKTIPSSGGSTAIMPRRGSSSE TFFSAPSKTWVLGIPGETFISGP AAFPVAPGGPRAAPRFSPLNSL *SGGNGGPGPRLHFSSCGKGP PRPSNSRNGGQSACQGGSHLV C*SHRGSLGEGHAYQGDPCSPG HPAKAPSRHAQAARRSAHAAS LTSGPCDASCQAW
14024	44392	A	14106	358	546	CFPSRIRLALSRA PKWPAKRSPS EPEMS/PPVWS/PHDPNNTAPPK EQPPSSPGRVGRHGNWSV
14025	44393	A	14107	22	549	DHCLCSVVRNKRDSVYPLPIPP CCKTSTISPP/LVDAVRP*DISVS KRVTSCAPLEQPHPLCLPTINAG R/TLARPQGAPT PNKEEGQAPG RATASGQAAPATTVLGDTTK/G PQGRHRTSASAA GPAPFAVA DQLPPEDRAASAEGRK*AAAFP FCHRLVQDGGPPPPAAGVPGA GES

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14026	44394	A	14108	146	2616	LAAVGMASHCFRQRRQSQSPA/ GLRGAGSAYSPA\EGARSSHGQ/ PPWRGRRRGPGDPVRGAARCR RPRAAAQPARPAARPPARPRPA P* AACCE/VPSAANSVAPSAAM *SSAGRDGASSQSRPPHAAAPP RSSALPANGK/PPSPVTRAARTC GARSSNTGA*SAARPKHSAASS RHPPPA/MPLPARHA/PGGTSG RPLPTPQGSAPTSSASPRGPA TP PPAGPRAPPPSPRRAAAPRPPGR QLSPA PGTPAAGGGGPPFPALR *SGSVFGRQLVGDGERGRACG ARGSAAPALRTFVVSPSTVVA GAACPLAVALPAPDPLPCSE* A PLRSG*VPQASLFCSQFRPQA WQHP*LLRAPCRLGAAPVCV WCHSRALDSATPRWM*G*RLP AVWL\PAFPSPFFNQAFVPPCQ NCSLQNRQTLSASAKIGTEEWD IAIKIPENVEVTELGNEQRL FGGLRRRQDEDEGKFGTPTDWL NGCDQNADSNMDSGQGEDG GCSFGGAGLRGSGWGDQRET FLALKANLRWPFSSAQSQTSQ EGAAGARSGLKGKKKNPLKLP KKQAKMKNKAFKQKQEKERK KHKELKAKASWKGLRPQVEFK NLAEERRGEAAVPGCPVVAGHS WRLSLARGCAKRARQLLPSE KLLAALREGSTRGGGAASQPQ RKLRVCMRVLDSVDFHMDG
14027	44395	A	14109	1	885	MIISIDTEKALDKILHPFILKTLN KLIGDGTYLKIIRALYDKPTANI IMNEQKLEAFPLKSNTKQGCPF LPLLFNIVLEVLARA/KQEKEIK SIQIGREEVKLSLFADDMIVYLE NPIISAPNLLKLIISNFSKVSQYKI NVQKSQAFLYTSNRQTEIQMM SELPTIATKGKLYLGINHPLTRD VKDLFKENSKPL/KELEKTTLN FIWNQKRAHIAKTMLSCKNK GGVMLPDFKLYYKAAVTKTA WLGDDQVFLIPRGHISDYHMG KNLGQYPAFQDRGPCGFPQCIV PLVYRD

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14028	44396	A	14110	453	891	LIHLSTDALRVSGWGTVRSFSS HEAIFQTIAWGETLDNTLLSRA EVPAAAFHGALCPWFETREWQ* LLQSILLVNIWLTRHVLHSPRSL KP*FYTT*VFVCSKLGQSGWGK VAGAKLQMNINISAKQLFKVQV LFKIESLMSSLST
14029	44397	A	14111	452	2922	KMGLAREWILRFLVLILQEIRS MRQKENKDQDLNSALHQADL IDIYRTLHPKSTEYTFPSAPHC/ RTYSKIDHTLGSKALLSKCKITE IITDSQTTVLSELRIKKLTQ/NRS ATWKLNS/YLNDYWVHNEMK AEIKMFFETNENKDTTYQNLW DTFKAVCRGKFIALNAHKRRQ ERSKIDTLMSQLKELEKQEOTH SKVSRPITG/SEIEAINSFTNPK RVPGPDGFDEPNFYQRYKQEL VPFLKLFQSEIKDGILPN*FYE ASILIPKPGRGTTKK/EENFRPIS LMNIDAKILNKILANRIQOHKK LLHHDQVGFIPGMQGWFNICKS INVIQHINRTSDKNHTIISDAEK AFNKIQQLFMLKTLNKLGTNG MYLKIVRAIYDKPTANIILNGQ KLEAFPLKTGTROGCPLSPLLF NIVLEVLAIRQEKEIQGIQLG KEEVKLSLFADDMIVYLENPIV SAQNLLKLISNFSKVSQYKINLQ KSQAFLYTNNRQTESQIMSELP FTTASKRIKYLGIQLTRDVKDLF KENYKPLLNEIKEDTNKWRNIP CSWVGRINIVKMAILPKVTYRF NAIPKLPMTFFTELEKTILKFR WNQKRAHIAKTILSQKNKAGGI RLPDFKLFYKATVTKTARYWY ENRDIQWNRTEPLEIMPHIYN HLIFDKPDKNQWGWKDSLFNK WCWENWLAICRKLKLDPLTSL
14030	44398	A	14112	3	3349	

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14031	44399	A	14113	294	1107	RRHRLNYPRTAQSPHPRKAL ARSESKRDGGFKNNWSFDHEE ESEGDTDKPEGPLDAPPRP/ESG PRAPGKGL*RRSRSPGSPSERGSA ARLTAEPEARNPAASTLLRRGP SSRRARRRCGPWIKKEAAWEE EDGGRQERRLGQDLRTRTLNK SKGGIDSRJISLGQHSHPHTAKL WLDQSLREMEVLKIIGALIMKK KVKEIQIKSRARSTPLHDQIGTT SPRERIIASKRHPYIITPKGIRY EQDTLSRTPIITIRSRQRLGPLT ASPPSPFTLAPPTQAIKPSLHLR EGKPTPTPGERSTRPHHPEPPRK EYALSSLYPPTYLLAPTSTDLG NAHPTQEPQFNVDATHPRQNR FIPVAGNSPKRSSQFPVFAPKK NTTPPYLDFAAILGLHRRPPRSR FRTSYPPKEFRSSPPERTAPRN
14032	44400	A	14114	2	297	VQKSVLCSFQAGTMEGVEEKK VPAVPETLKKKRRNFADAIQFL QTVFLAF*YTLKGRQVYWL VEE*HQFYKISYRKKMVQRJRH PQSC TVQKSWWP
14033	44401	A	14115	3	754	GTMEGVEEKKKEVPVPETL KKRRNFAELKIKRLRKKFAQK MLRKARRKLIYEKAKHYHKEY RQMYRTEIRMARMARKAGNF YVPAEPKLA FVIRIRGINGVSPK VRKVQLQLRLRQIFNGTFVKL NKASINMLRIVEPYIA*EYPNLK SVNELIYKHGYGKINKK*VALT DNTLIARPLGKYGITCMEDL/IH EIYTVGKCFKEANNFLWPFKLS SALSGMK/KKTTHFVEGGDGG NRVDQINTLNRRMN
14034	44402	A	14116	1	388	

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14035	44403	A	14117	1	1145	MTRNYEWLLEAESSPQPIAFQK MEPQPYNSKELNSANNQCLLE KPKLRQLKDKKEYDQGHATAVQ CQSWVYVLTDPDFCQQLILLPS TENFHECSRSDTAGHLRTGHVA SNWLSEHSPQTMPAAMQWDK KMQNTSSWFPQKAPEKVKPMS KLWQTPSQNDTLKAVKALTL SSPERNSINTNKKDVHTETSSK GHQHQRPKVDKSMKMRKNQH KKAENSQNGNASSPPRNHNSP ARERNWSENEFDELTEVVFRR WVITNSSELKEHVLTKQCEAKN LEKRLLEELLTRITGLEINQAEERI SETEDQLNEIKHEDKIREKRMK RNEQILQEIWAYVKIRPKLRLIG VPENDRENGKLENTLQDTIQE NFPELAR*ANIQIQ
14036	44404	C	14118	291	551	
14037	44405	B	14119	1	1308	
14038	44406	A	14120	82	367	ITLSSPPHSFIGHKTASGPPQKI PPQPSQ/CKQWGDPTVEAC/CV SCPTQGFIPTRGPPCKHESLV VPLVGTPTRRNQPGGHIQHSQR WAPVLT
14039	44407	A	14121	999	2661	VHLTGCGGPGQPVPPEAPPRGL RSMRC/GP*GFSPGAEA*TEP/C HYGGRRFGPCGFSGLCLATNSP WLPGRPPPCSPWAGP/CGLCLPLP AAAAERQPALSVPGASPCRL PLVVLCHGSHLNGGRVLLRPG GSPCGHCHNCAGARRGLGHVL QGGAQARQREQLQR
14040	44408	B	14122	164	1042	
14041	44409	B	14123	320	566	
14042	44410	B	14124	1539	1674	
14043	44411	A	14125	185	780	QKAKKGKLRKSKQNSFPGLKK TVPSQLVQYCPFS*ISWKPMVY QKVPA*PRPPRTPDHHPDPGPA PHPRQHHPPPSPDAP/SPPTPT RRRPPTQPPDPHPRPPHSPKPH PPQQPPTPTATPTTEQQRHTAPP TPRPPTTHPPSTPKHHA/PHTAPP PTKNTKPTPTQRTQDKGRQKK PRRQPHHSEPNKKS PKAHI
14044	44412	C	14126	1	1128	
14045	44413	A	14127	319	536	
14046	44414	C	14128	231	425	
14047	44415	B	14129	1	1431	
14048	44416	A	14130	75	393	
14049	44417	C	14131	174	371	

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14050	44418	A	14132	79	164	
14051	44419	A	14133	343	775	
14052	44420	A	14134	554	724	SEGPSKEPTHRRMKFSHHDDLIFLDLSN*QPPNSPEPHPPQSP*KPWPQNPSRQM
14053	44421	A	14135	20	242	VSLFMSGSGHCIRSTRGSKMVSWSVIAKIQEI*CEDEKMARES\LAESMSTYVMMNHTYDS*GKTHILIMKK
14054	44422	A	14136	229	366	
14055	44423	A	14137	131	505	
14056	44424	A	14138	1	1317	AGSCSGSRAMAEEOGRERDSVPKPSVLFHPDLGVGGAERLVLDAALALQARGCSVKIWTATHYDPGHCFAESRELPRVCAGDWLPRGLGWGGRGAAYCAYVRMVFLALVYVFLADEEFDVVCDQVSAIPVFRLARRRKKILFYCHFADLLTKRDSFLKRLYRAPIDWIEEYTTGMADCILVNSQFTAAVFKETFKSLSHKDPPDLVLP/SLNVTSFDFSCS*KAGMT*SPRGKNSWLLSINRYEREKGIWTLGTGKALVQLRGRLTSQDWERVHLIVAGGYDERVLENVEHYQELKKMVQQSDLGQYVTFLSFSQKQKISLL/RQLARVCFYTPRQ*GTLGIVPLGRPCYMAVPQFICLIRVGPFSSSI*PQCSQGFCEPDVHFSEAEKFIREPSLKATMGLGWEIPE*REKFSFGSILQEQLYRVVY
14057	44425	A	14139	1	648	MESKEEQGGVADHQKATRGIPTPQPREVVSERATQRGNRAFTKLCNPKTNRKQQQQYQQQKGRKTKLPKGQHPQRSKLDKLTEMRKHQQNTKNPKGQSPSCPPNDCNVSPARVHNWTDMEELTEVGFKKWVRKNCAELKEHVL TQCKEAKNLDKRLEELLTRKTS LERNINDLMELKT/RA*ELCKA YTSINS*IDQAEERISEFEDHLAE



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14058	44426	A	14140	1	1365	MPVKGGTKCIKYLFGFNFIW VSEDRCRALLSGPTCSRAPDTG RGRECRQLALPAPGRHRAGRES ALRLPAGSKAGSRAGRDGRDG RIRVGVSGLFGSTTGLFNQSL AETGFTPYTQKSNDFLVKS LKJ WHTYFKNFHQEARLYIRTSPGS NWNWFCFLGIESPEQPGVYEG QRPRVVTKSFASLTLKRVGTVL LLAARINADVLYVLQLAGIAVL AIGLWLRFDSTQKSIFEQETNN NNSFFYTGVIILGAGALMMLV GFLGCCGAVQESQCMLGLFFG FLLVIFAIEIAAIWGYSHKDEV IKEVQEFYKDTYNKLKTKDEPQ RETLKAIHYAVCRLGKDTLLRF LRIVSAHRLNCCGLAGGVEQFI SDICPKKDVLETFVTKSCPDAIK EVFDNKFHIIAGVGIGIAVVMPS FRSNHDPHVS SLYLLIFGMIFS MILCCAIRRNREMY
14059	44427	B	14141	98	1064	
14060	44428	A	14142	560	964	KRLPRILGIRGKPCPDTSRAGR RVRGAAAAPCREAARGRGQRR FLPPTWRCETGAATMFPSPALT PTPFSVKDILNITVRPRS/LGQAA LTKRLSASLSPQSCARCRRRWS CVILSAVRGN*YAGSRAHRDCT Q
14061	44429	C	14143	189	452	
14062	44430	A	14144	1	647	

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14063	44431	A	14145	890	2905	LRLSLKFPMSPQWTPYNELYTL KVDMMKSEIPSDAPKTQESLKG LLHPEPIGAAKSPAGVEMINSK VGNEFSLHLCDDSKQKEKEMNG NQEQEQESLTVVRKKRKSQQAG PSYVQNCVKENQGLGLRQHL GTPSDFDNDSSFSDDLSPSSSL HFGDSDTVTSDDEDKEVSRHSQ TILNAKSRSHSRSHKWPRTET ESVSGLLMKRPCLHGSSLRRLP CRKRFRVKNNSQRTQKQKERIL MQRKREVLARRKYALLPSSSS SSENDLSSESSSSSTEGEEDLF VSASENHQNNPAVPSVTYQGP WSKNIKEKTLEINSSQALTAYE CLHSAHVINLISPFYHHFPSSQE RSYLSTLSTLSNKKTGSVWFTR SPKVTQFFPGGALTGLSQRPER EILRPLALPGKGNTPPYFCSPSM GCTHCPTSPNEMNQGISDAA APVRDIYIKPPSPWDRAPGGRG GCGHSFRLKSPYLRAKSAAD FPAQHSSSDKGQAASSSGSLTP VYPVWVTPPSRGRQTPHRGEL WLASDGCPSGRKLPEEGTGSNL CCSAASAGDTQANRDHNSSPA REQTWTENKFDKLTAGLRRW VINSELKEPVLTOCKEAKNLE KRLDESPTRITSSEKNINDLMEL KNTAQELHEEHTSINSQ/DQAE*
14064	44432	A	14146	1	737	LNRGEQRAVRYYSHMKNMA EEEDYMSGFLH*CPRRYQTRIA NAKANPRSPSKREKQQEANLK NRQKSLKEEEQERRDIGLKNAL GCENKGFALLQKMGYKSGQAL GKSGKSGIGHEASLKRKAEEKL ESYRKKIHMKNQAEKAAEQF RMRLKNKQDEMKGELRRSQ RACQQLDVQKNIQVPREAWY WLRLSEETEDEEEKEQDEDEY KSEDLSEIKKTYLQIVQDQLLQI MTKIIPNKVET
14065	44433	A	14147	1	1860	
14066	44434	A	14148	1	1203	
14067	44435	B	14149	1	1119	
14068	44436	A	14150	1	1407	

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14069	44437	A	14151	1	1731	ERSSSPATEQSWMENDFDELRE EGFRRSNFSELKEKVRTHHKQD KNLEKRSWFFEKINKIDRPLAR LIKKKREKSQINAIKNDKGDTA DPTEIQTITTEYYKHLYANKLE NLEAMDKFLDTYTLPRINQEEV ESLNR/LNNRL*N*GNN**LTNQ K/NVQDQMD*QLNSTRGTRRS WY/RFLLLKFQSEKERILPNSFY EGIIILLIPKGRDNTKKDNFKPIS LMNMDAKILNKILANRIQQHIK KLIIHHDQVGFIPGMQGVFNICK SINVIQHINRTKDKNHMIISTDA GKAFFDKIQPFMLKTLNKLIGID GMNLKIIIRAIYDKPTANIILNRQ KLEAFPLKTGTGQCPLSPLLF NIVLEVLARAIQKEKEIKGIQLG KEEVKLSLFADDMIVYLENPIV SAQNLLKLSNFVSKVSGYKISVQ KSQAFLYTNNRQTESQIMSEIPF PIASKRIKYLGIQLTRDVKDLFK ENCKPLLKEIKENTKNWKNIPC SWIERINIVKMAILPKVIYSFNAI PIKHPMTFFTELEKTTLKIWNQ KRARITKSILRQKNKAGGITLPE FKLYYKTTVTKIAWYG
14070	44438	B	14152	1	906	
14071	44439	A	14153	3	553	EHSSSPATEQSWMENDFDELRE EGFRRSNYSELKEEVRTTHGKEV KNLEKKLDEWLTRITNAEKSLLK DLMELKTTAREICDECTSLSSR CDQLPRPDGFTAIFYERYKEEM VPFLLKLQFSIEKE/VNPP*LT/L GQHHPDTKAWQRHNKKREF*T NIPDEH*CKNPQ*NTGKPNPAA HQKAYPP
14072	44440	A	14154	1	909	MKAIEKMFFETNENKDDTTYQN LWDTFKAVCRGKFIADVNHKR KQERSKIDTLTSQLEKEKQEQ THSKASRRQEITKIRAELEIET QNTLQKINASRSWFFERTNKID RPLARLIKKKREKNQIDAIND KGDITDPTEIQTITREYYKHLY ANKLENLEEMDKFLDTYTLPRL NQEEVESLNRPTGAIEIAINSL PTKSPGPDGFTAIFYERYKEE LECSSSPAMEQSWTENDFDDLRL EEGFRRSNFSELKEEVQTHRKE AKNLEKRLEKWLTRITNVEKS LNYLRELKTMARELC
14073	44441	A	14155	1	969	

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14074	44442	A	14156	377	687	LLEGKLTNRKDIHTKTPSV/SP SSKTKHESSSPAMEQSWMEND FHLEEGFRRSNFSKLKEEVR THRKEVENLEKRLDEWLTRITK VEKALNDLMELKTMARE
14075	44443	A	14157	1	711	
14076	44444	A	14158	1	831	
14077	44445	A	14159	1	744	
14078	44446	B	14160	1	1479	
14079	44447	A	14161	1	810	
14080	44448	A	14162	3	651	
14081	44449	A	14163	2	1067	
14082	44450	A	14164	2	2063	
14083	44451	A	14165	1328	1639	PTNAHETSGRYIAGSSEKRTSA RTCGGTSAAARPAGTSMQTRC RQPPSS*HAVPRVAQSSDGL KATHPQAYQPCGHTPTRLPQES NCIEHERGLGKKKKKKK
14084	44452	A	14166	1	620	MTLGYGQRGANKDLRTGFDPD LCTMDNFAEGDFTVADYALLE DCPHVDDCVFAAEFMSNDYVR VTQLYCDGVNDSFLIGLLRIG CKIENERSSPAMEQSWTENDF DELREEGFRRSNYSLEKEEVR/I NGKEVRNFEKLDDEWITRITNA EKSLKDLMEKLTARELCCKC TNLSNRCDQLEERSVAMEDEM NEMKHEDKFREKE
14085	44453	A	14167	1	514	MGKKQNRKTENSKNQTSSSP KERSSSPAEEQSWMENDFDEL REEGFRRSNFSLEKEEVRTHGK EVKNLEKRLDKWLTRITNTQKS LKDLMEKLTARELHDECTSLT NQFDQLEERINNEHD*QD**R RKERRIK*MQ*KMIKGISPLIPQ KYKLPSINTINTSMQIN
14086	44454	A	14168	1	366	MDTFLQAERKDYMEAYELIEQ EEQGEREPVAVNNILSTEALMA NAKSTLMFYAVGFLWQPGGGR GHKAASNPGVTRDVGSLSSLT FLRGERSSPAMEQSWTDNDFD ELAREEGFR*SNFS
14087	44455	A	14169	1	1026	
14088	44456	A	14170	1	3906	

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14089	44457	A	14171	1643	2721	IKPTKMGKKQSRKTGNSEKQST SPPPKERSSSPAMEQSWMENDF DELTGAGFRRLVITDFSELKED VQTHHKEAKNLEKRLDKCRTN G*LEWMNG/ITRITNAEKLKDL MELKTKARELHDECTSLRSRFD QLEERVSVMEDQK\MNEMKR EGKFREKRVKRNEQSLQEIWD YVKRPNLRLIGVPESDGENGTK LENTLQDIIQENFPNLRQANV QIQEIQRTPOQYSSRRATPRHIIV RFTKVEMKEKMLRAAREKGQ VTLKGKHIRLTVDSLAEQLQAR REWGPFIINLKEKNFQPRISYPG KLSFISEGEIKYFTDKQMLRDFV TTRPALKELLKEVLNMEERNR YOQLQNHAKM
14090	44458	A	14172	351	898	SGVTPAPWRPNGLLITAAASH PVLAIAPALHCSPRCPFLTTVTC SGPQHHAARGRVPHF/SECCK SFRYRSDLRRHF/ARHTALKPH ACPRCG/KGFKHSFNLANHLRS HTG/ERPYRCSACPKGFRDST/G LLHHQVKTIIT*PD/CGGCLVSN IVGYSYRPPWPCTRGPRRPLGSP SPAPGSVCLC
14091	44459	A	14173	1	551	
14092	44460	A	14174	3031	3207	TIHGCWWDPLSSIF*PFWGRGFI SHKICQAQISFRVISGTVLSLDK LLIMFHKAIFASP
14093	44461	A	14175	3555	3957	ENGQKTWTGTQSRRTYTGDRM AQIQNPDTKCW*ECKATGTRI CWWECKMVQPLWKS/WQFLT KLSILLPYNLAILLGNYPNALK MYAHTKGFTCMFIAASFIKAKT WKQPRRPSVGEW/INNL*LVQT MEYYSAL
14094	44462	A	14176	3	883	CQYPYRPRPRGTGTHGSCQPPSQ GSAEP*G*CLPTLLRMALKAQP TKVNPRTLLSDPDVC/S*AAHS RVLITSPSRAPWRLPS*RRCPA GTCMPSTATSAR*CSQRPSSW *T*TGSSLSGQACGSSSTAPPSS SWSACTCGCAAAARCSAASS TRSGPTCGSSPPASSCASSTPAP GTPSSTLTSWASSPWSTPCPGS AGPSSWSSSSSATPSASASTRTL SPGSPAAP*PWPTALSRLTEQEA VWGAWGISHGNSWDKETKLV RLPHPCSKSPCFRPSLPYRAHR AP

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14095	44463	A	14177	3	395	SAEVGAAETTLTELRRTVQSLEI DLDSMRNLKASLENSL/GILLHL ESELAQTRAEQQRQAQEEYAL LNIKVKLEAEIATYRRLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH
14096	44464	A	14178	2	1044	AKTSSQMPSPQEGMCGKACTP ALSQADSLCPLRLASEVEGYS LPACAEPYVQSECLSHLSVWSL QHALLSLASMSFTTCSAFTNYW SPGSVQVPSYGTQPVSHAASVY AGLGGSGSRISVSHFTNG/GGLA GMGGIQNEKETMQSLRDLAS YLDRVRGLETENWKLESIQEH LNVTRL*LETEIEALKKELLFM KKNNEEEAKGLQAQIASSGLTV EVDAPKS/QDLAKNMADSRQA YDKLARKNREELDKYWSQQIE ESTRVVTTQSAKVGAAEMTLT ELRHRVQSLEIDLSDTRNLKAS LENSLREVEARYALQMEPSLLF SKIIFGRVWEISYLHVFEKGQV

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14097	44465	A	14179	1	2040	MPVPQLPPVSRSLAATAAASVT EPGPNPEAVRSASAEPEVKEGF PSQNHSGVHSNLIPSGGSVAPSS GRSHYGYASEDGTCSKLRVRPR LAAAPAAPFAFVADLASC COG LSFFEGILLVRGPYRRLRATVV RDLVAVRMAEEQEFTQLCKLP AQPSHPHCVNNTYRSQAHSQA LLRGLLALRDSGILFDVVLVVE GRHIEAHRILLAASCDYFMSFT TRSTFTNYWSLGSVLATTYGA RLVSSSTARVYAGAGGSGSRISV SRSTSFQGGLESGLAAGMAG GLAGMGGIQNEKETMQSLNDR LASYLDRVRSLETENRRLESKIR EHLEKKGPQVRDWSHYFKIIED LRAQIFANTVDNARIVLQIDNA RLAADDFRVKYETELAMRQSV ENDIHGLRKVIDDTNITRLQLET EIEALK*ELLFMKKTPEEEVKG LQAQIASSGLTVEVDAPKQSD LAKIMADIRIAQYDELARKINRE ELDKYWSQQIEESTTVVTTQSA EVGAAETVLTTELRRTVQVFGD STWTSMRNLKAINLENSLAGEV EARYALQMEQLNGILLHLESQ LGQTPRTEAQRQAQVEYEAALLN IKVKLEAEICHLTRPPSWKIGE DFNLIGDSLDERNSMQTIQKTT TRRISWIGQSGVLRPIDTKVLEA LSQAEASGTLGKQEAANKKFS
14098	44466	A	14180	275	550	
14099	44467	B	14181	729	909	

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14100	44468	A	14182	1	1415	MGTQCDLLAKSLEDPCPVDEVE DAFQGLGKDEEIEQFSDKTFG SGAIDDDWREAHECLAELVK QPVAVIEQTGNGERDEMDDL DHEENLAERLSKVMVENELED AIMRAVQTRPVLQPQPSLNSSI WDGS/VSSSEANPRTTACSGNAY SVCIRICFAEA/SPRVQKMIGTF LNEHYQGGQLHLSLAVLLELS P*APHLNRWLYPASPFRFCVRS LSMFGP/QMPPRYPAPYGERMS PNQLCSVPNSSLLGHPFPSPVPP VLSPLQRAQLLGGALQPGRM SPSQFARVPGFVGSPLAAMNPK SQAPMFRPDTHLHPQHRLLH QRQQQNRSQHRNLNGAGDRGS HRSSHQDHLRKDPYANLMLQ REKDWVSKIQMMQLQSTDPYL DDFYYQNYFEKLEKLSAAEEIQ GDGPKKERTKLITPQVAKLEHA YKPETIICQALCRALHINYLTKA FQQAFEVSASITTYR
14101	44469	A	14183	204	560	QGYWRGCTSSGGDGGCRGCW SPGKRR*GLSRTASGPPAAVAS PGRPRSPPSARTG*S*PGA*ARP CSRTW/PPRCPLRPSSAARASA SRV/APL/GEPAPANTNIYCAAL THRATKSSTREF



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14102	44470	A	14184	59	1695	DMPWWVPVLPWIKDSSPSSLEM NPDNTSGLRQKSVEAEPCLW MVHRYTPQSTGEACTMAKAA GPSSPGSCPPRLGADPWPMR LSH*EC*KGTGTTASGYRRHQET APPSSGSPVGLSAGLWLSWA WPVSPACLHPGPPLCP/GPPALG LGPRSPAAS/C/PPLPEAPPACSP FCP*GEISSSGPLEVPVQV*LPGD LSEPLGTSTPLGRAPGLCSLLRA P/RPGAACPPASPSRPAMLLS*E APRRPGPSGETSPSPSLAPSEASP G/PPRHNGRDSEGAGTRTFGA SGSSKG/LGGQPAHPGPGGR*G GGRYRGSAAGSVHSAAGGCS HAPGCA/CDVRG/AKPSHFHSG CQSG*GHQTSGGCPHLGLSPCS TCLCAGQLQQQK/PGSSGNL* GQGHSGLDLSAPPHLVPG/PG PLTAGGHG/SLVGDSEWGSPAP GAVLGQNSSGPDQQRAGR/WLC SRAEKSGCYTAPPLG*LSAQFQ EEKASWVPVPGSGQLEDSDHPDPY TALPLAAPPWGTGTGCPPAWP RL/EPDDCGPRHLSPTCSTLPS WGGCAGS
14103	44471	A	14185	264	643	RCLRPGEGRSRQGRSRTGRGK AEEGGARTQQRRAALLPERS ASQPGPRDSPRWRRRQTTGR ARPASSGGT*GSSWLTLAWPPR EP*RLRSASAQG/CRRRLQQR RRGLYQPHRPATCGPRAAD
14104	44472	A	14186	114	1039	QSQRRLPLADTPRRSNRPCSAA GLLFPQSFWSQELSQAFLPPS SPCLHCLPGTAAASRIHQRSPT RPSVQERRETHGLCAHRCWE AGSPAHP*AHRFVSRAGSPA GP*AHRCISRAGTPARGPYRR* VSEAGSPA/AVVSAPCSLSS*AC VTG/CSPAHS*AHRCASRAASP EHTSREDAEQAP*MQGLCPVH QEQQPSRKSVVTSPIHPETDCR LLPKNPCANKHQPTATGGRAV PPEVQHVPPRSGMTLGLSHQPLA LQFQMQATDAARLGLSPOGQG SPPGPRSTLLGLCLSLFQLSLR

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14105	44473	A	14187	1	1629	MIIVVENPKQSTKCVRAYTFS KVAGHKAIEKRLEKLAVDPHR DRAQMLKVENVQQAQQWIN KLPPARREDEDVKEIRWMIEEL RVSFYAQQQLDHTGVDRGQPGA STWSASLMCSVTQPKLKRKP GFLGLGERNCFSVYGAGRSW GRGLGSCGFWLPPRTRIRAADV CLARWGWRAHRVRVLAGKNS RAESMLWSFHKAIEAARTNI QAQTRVEAAQATERRIAADIDD SELKAPRDGRVQYRVAKPGEV LAAGGRVLNMVDLSVYMTFF LPTEQAGTLKLGGEARLILDA PDLRIPATISFVASVAQFTPKTV ETSDERLKLMFRVKARIPPELL QQHLEYVKTGLPGVAWSFLYSI NQTICLRLDSEIAKLQALEATC KSLEEKLDLVTNQHSPIQVPM VAGSPLRTTQMCNKVR/CVNP* ATVVPVPVPPPTTQQYQGLDA GATTRVPRSLRSEGQSTQKSP SCGSHSQDNSGGRKAVGARRD RWWLGAGKGPDCRGAKCGLP LSGQKCPDLPYQVVGCTSKTG
14106	44474	A	14188	3	1010	GLQTQLVPLSSPVASLDNFSNL FGADLHVEKGQVPSSDQHL RCHFPKAPPWSVCKALLPRSNP ATSLSGTSKPNSSGDFNSVTKS QPHCELNSFVLTHGSPVWMM SEHDLADVVQIAVEDLSPDHP VQSCGTVVVLENHVVTDDEP ALKRQRLEINCQDPSIKSFLYSI NQTICLRLDSEIAKLQALEATC KSLEEKLDLVTNQHSPIQVPM VAGSPLGATQTCNKVRCVVPQ TTVILNDRQN/DHCSQDGRPL EQQGTGFPKMSLASQ*HGTNP TFPCHCAESHENKSTLSQGT QHTLHLCGHRVPEGRHRPSSLR SGRAGWAMLNA
14107	44475	A	14189	1	1710	
14108	44476	A	14190	52	457	
14109	44477	C	14191	1	838	
14110	44478	A	14192	92	514	
14111	44479	B	14193	1	531	
14112	44480	A	14194	1628	2008	

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14113	44481	A	14195	2	1616	CPPRRRPRPRAPPHRRPPAAGA RTAAAGDRSRHGPASRVGTGP GQQMRKTYCRNSEPSDLLDQGG GSRGGPRRQSKCVRNWWVLGL TDFKNEAADPHDSGAQLASPSG FRTRAAGGAACQSRAMRYS A1.GWSMGLGAVEQGVV1.VGE AQAAQEPMEWVGSGSMVGCR SRAPPAGRQLRPDKKLSTAPVG RHRWRPSTPSAATGLGAKSLIA RGQQGRLAAPNKTDFKARAVK KDKEGHYIMIKGLVQKESITHNI YAPNTGAPKFTKQLPLDLRNKT DSNTHVGYFSTPLTALNRSSRQ KVNKETMDLNYTLEQMDLTDI YRTFYPTTAEIFYSSEHGTFSK TDRMIGHKTSLNKFKKIEIIPSTL PDHSGIKLEINSKKNLQNTNT WKLNNLLSDHWVNNEIKMEI LKFFKPNDSDDTYQNLWDTA KAVLTGKFIALNAYIKKSERAQ VDNLRSHLKELEK*EQTQPKPS RRKEIMKIRAELEIKT/QKIQKI NKSQSWFCEKINKIGRPLARLS KKGREKIQISSIRKK
14114	44482	A	14196	1097	1686	APRPLALRFGLPSNSGAQLASP SGSCTGLQVELPANSCTVRWQ VSALGWSMGP/GPGAGGSAD QGGSGGTGAHGGVGRFRHGG AAGPEPCPMGEVAKAPARNRA QRQWAGTAGGPCASS/NSC*PG C*APYCPGWGQPAAPSAGPP SPRPPTTRAGPQAPWAAVPVPAH ASP <sup>1</sup> PHLPAS*GSPLRPGQSGKT YQKSH
14115	44483	A	14197	647	1496	FLNLLSQWNLMLCGLKKRRKQ FKDYEKKVKELNEERDKYRKQ SVYIYTFGKEPTLNKVLDAACDG KFQAIDFITPGTYFMGCRWSC LPVLHCALAGLSPWVVDGTRR PGAVGSAGRGGSGGTGAHGGV GRFRHGGQLQVRSPAHEVLRLPS EKSSAAQWAGTAGGPCASSTA ADLGAKPLTARGGGPAGPPSA GPPSPRPPTTRAGP/PSTVGSPG/ SPPTPLPPLPAS*GSP <sup>1</sup> SGLGQP RKGLPQCSGGLKGWLLKHRQS GCPGRGGAQSERGLRGLPARC

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14116	44484	A	14198	1	560	MAALLLVGASWL/LLLLVGASWLLARVLAW/TYAFYDNCHRLQCFQQ/PPKRNCF*GHLSLCGA/TEEDMRLMEDL/VPLFRDVQLWWLGSFYVVL/SLVHPTFTAPVLQASGG*PGFTTTMGLSFKRAKWQRLA/SEGSVRLMEFHEISLMTLDSLQKCIFSDSHCQMVSPGSCTTSRGPRI GALPTGGARAPE NGDPKEIE
14117	44485	A	14199	175	2225	RWSSVSFA SGMPSPACCCWGHPCPSAAQPTGPSWAGCRGLTM PNGQASPAS*VPPGAFPLCIKQPLWENLMTGVGKFSREAA TLE GPTLPTTR/GVGPQCRQIADLPLE RTEGWRGDIGNPVRGVQRKRLQVAGETAASLLPCQASGESCSVP*QARGPPVLFLPQ/WGRRWA KGCASRSCF*PDRPSHAPGA REGAGLAAAPKRVARLSPAVPP ACCGLQGSSSAAQAL*PQLS GPRLPREK*GA/PCWRRGPRCC PQNSAPETLEYVEPRGTGAPGT THTGLPSPSQGCRGAEGW/WGL PGLPGPRAGSSPQPRGAWRPR ARTPPASWAAKGRGRPLAAG GLARPRDPGPGSGVAPAGSLRP HSSGRGWGRRRLRARPTGGNR GSEWPR/RPPGYPGARPGAPSVPRQP/PAA*TRPLPVCGGARPFH PVPATV/VPHAGPP/SGMGRRRG RYPRPASARPAAGCGAGSAEPG RGTDKGGDGGEGKTKRGGG/L GGGAGAPKAAPGA AEPMGGR GAGAGGGGA/R*GGGGGGSG TTSGSSSRPRPRTRAPPETDP APRPRPGLVRAAGGGAASGSG TGRGAEGCGVRAARGVPASLR AALARGAQARVLVSGPAPGWA EPRPAGGARGVGVWGPVLAGP GRGPRGGAGRGPRALSRGCAA *AWTPRGAGQGRGPSSRGSG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
14118	44486	A	14200	1	2850	MHPQERTAAATNAAIIITDGAA TQMGVSTSPAGHPRDGYQQG KDVSLLAHTHSFKISAAIEAKTT WVGMCRWGCKVALDVTDFVH QKGPEGAGRKNQIPFIQDFPFAL RSEKRPSLPATISGKTLPLNTKT CPQLLQCKREGHSLQCLIWLQ MVPQLGRLAVGGCHSNWFPSP KKAVIWEKFKHNSGLVSDKG GKRTGKGLGECLLMMRKMS ALEALTTFDSSLQHHPRTTFVPS ALEALNPGKPRQLVTPA
14119	44487	A	14201	1	1570	MQSATSDAGSAPKKQKKVMTL QEKSGLIAYFFTAQWPNTPP KLRTCTESMGCCLLDCCCTGQ GDWTRVTLYCRYPFILFGTNA WVANFERPRMNANSLASPTG LSPYLRFGLSCRLFYFKLTDL YKKTTLGSLPDAAMAFVNCHG AGGTVAVRTSRGHSRCHFQFG VSGTRYHLLTPQVVWERQQQK VDSLLGTQQMLEAQGREF/PGP CIPLPVPTNAPAAKTTQPPSPD L*PPNYLFLCVDGHRPIC*EPKQ NKSDSFTSQA*SQDG*YCGCS/C RAPRPHGTSATIPMSSSCKRFQ SSPF/CKGPYHFRFLEERPLASRP SIHPSGGSYWLRLGCVAVGRTG /SRLNLQLHSASGLQALSKQR*R YCQSAGAGSPEPPRGGTR*CCR EAAAPGCRAGTSPSPAANLPSLR RK/PGTC*PQNPPGRGCGSGASA AVLAETPARIKRSFPRQSCPR TWMAAGAPGSSRRQGTKHVT* *SSTLEKQLDNPTATYFVSVPTRK PVH*NQQKDL*VTG*LQIFHL
14120	44488	A	14202	11	356	VSGPPR*APWCPLAAPTGSTS HGSTARDSSTACKVS/GGATCV/ SGCGPGLGVLGRGLSSTRSCCM PAG*CPSSKDTCEKSGGRTPV PPFEWAAQDASLVRRCRILAH PCRGT
14121	44489	C	14204	333	473	

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14122	44490	A	14205	344	1035	QSAAQWFWWPGRSASLGGA GMQPPLASWPHPRISIRCLR AP*QFTNATDPRFRSAPRRSGQ QQPRGSSGPAALASPSRQPNR AGALRTGGAGWATALDTWSC PRTRRRAPMGSL*AAAQQCV TGATWPPPSAIA*QSAAQWFW WPGRSASLGGAAGMGPPLAS WPHPRISIRCLRAPAPCSGPSASS AAVQVACCCSLACCGPSRPASQ GHLDGTPHTSPETCTTSLWSPQR RRAAGPPKVVDIPD*RGSRRLPS GRGAPNTTCIPYGGSPGAKWIE GCPAQ/RPSPPLHPAMRASAL LLMPFLQRRHRSAIRLLRPGS DCTGKK/GKGLAGPETKRQKR LCPSPKTLGRALGQOEALPANV RC
14123	44491	A	14206	41	292	
14124	44492	C	14207	480	1637	
14125	44493	A	14208	3	410	SPPCGAPPPVFCAPAPRAPAP RAPPLAEALPGFASAAAGSAPA RSGPAGAG*GSRSRPRARASAS LAPASAGDHLGYPSATAAAAP ASRPWLWRPSLNAARLGDPA GWQASQWAAGSA*RAGSQWA AGEARA
14126	44494	A	14209	1	1274	FFFFHPLRSLLDGLHQSERSA PEIKPGALESTWSQARGAALRL AEAR*RAAPAAGTACSAGGAA SSPR*GSRATRRRRRGPTAPSR ATAPGRGAAASAAPARPART ALMASARGPP/TAASPAQALTR SAPGHLPPMSELGAVTALCESC PVT/AAPRSGGGEAGGTLASEW GRTCRNYG/PAPGIWRPPLSAA RPAAASPPARRIWSPPAPVHSA ASPIGLRVAAPCSSGSAVPLRSR RASPPCGAPPPVFCAPAAPAR APPRAPPLAEALPGFASAAAC RGKRLRALQGGGLGRSGSRQ GPAAGS*LRGKSWSPPPGSA PLPLAQVLQALVEAGSRSPRA RASASLAPASAGDHLGYPSATA AAAPASRPWLWRPSLNAARLG DPACGWQASQWAAGSA*RAGS QWAAAGEARG
14127	44495	A	14210	2	335	

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14128	44496	A	14211	344	1062	TRAEVTQQLSRFASPPVLRLL RSYVSPPAAPTADPRWRPSWST SLRWVVKPNVSAAYRIPPRASN GYRASDWKLDYA*WTGLRLIT SKGKTAYIKLEDKVSSELFAQA PVEQYPGIAVETVTDSSRYFVIL RISDGTGRSAFIGIGFTDRGDAF DFNVSLQDHFKVWKQSEISKE SQEMDARPKLDLGFKEGQTIKL CIGLCSKPGTTAIQLGPVLNGIG RTLRTDLRNKNDLEGTNL
14129	44497	A	14212	573	1017	TDQGVGSPICPRFQCGPPRSPR FQQRSPHSPDSSRG/PPHSPRFQ QGSHPHTPDSSSG/PPYSPDYSSG HPTP/HTSQQGI PC* DGHGWLPC GPVFLWSEAPHLNPLGLVWVGQ PRAPALPGNSAESKLWPHDRPA RPETPGAGTAWAHQALRV
14130	44498	A	14213	707	836	
14131	44499	A	14214	724	927	SFMDFRFVLLFFHLVNPKN*RP VS/SPPGSKLLVPPWGPKT/PPVP HPSPPPPAHGEPGLPPPPPPPLPH
14132	44500	A	14215	29	157	
14133	44501	A	14216	1	363	
14134	44502	A	14217	770	952	
14135	44503	A	14218	1053	1995	KSSPEPDLSHSFICSPNFPSSSL KRPH/FQSSILACVFCITADSSRA PCVLRVCDGFAGLTRSSAPSSK EKPCGFSLPEFTPLAVSFPQAAL CSLGTVSCLRPRLTPSWCEP VLLAGAVCPGLPCAAGCPWA GEEGCPGATSQLDQVSWPSLQE APEVLWPCLDSWGWFAPSTV IPLMASPRFGFMGRSQQPVLIN HLIKEPKAKFSNKNHSIRCCQG QRKWRRGNAAGMCCQPQIPGK GEVKTEFQPVSNRNVNYGCTM HFQETLWTPRLGLGDGDSNNN NNNNNNNNITANPGKEAEKPE HPHLLVKM
14136	44504	A	14219	482	833	THQGARGCTHARVSVREMRTR RGRWATGMVRPAPCSSVHTTA VQRQQVADQLQTTAELSME/L N/KWDQDPEAFVRKVATSYET WIS*YYPEDKAQSKQWLPRSGS GATLYSATNQYP
14137	44505	A	14220	195	367	

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14138	44506	A	14221	989	2210	LLVSCAILLSVSFLHSSSFVRSRS NRDSPACVDATYRGCSQCGEG VCGEACSCFPDLNPQGVHAG EGVLPCSGWEDTFGKNTCLVS YQQIPNRRRPCTCECGKAFGQ RSHLVQHTSEKLYACQECGCTF SNNSSLVKHWHVHTGEKPYMC GHCCKCFRESSSLAKHQRVHT GEKPYVC/GESTHLVQHW*FHT GEKPFAC/HR/CSKAFADFSALL ACHGTYTGERPYECRVCKAFS PSLSLAEHIRCHTGEKLYACQE CGKAFSHSSSLSKHQVHTECG KAFSQGSYLQHLKIHSGEKPYI RGEHPYACGKCGKTFHSKFLT QHEQVRMGEKPFMCGDCGRAF MQTSSLALHQRTNNGEKPYKW NECGKSCIQMSHLTEYYQNLPE KGSKDPHTDATVHSPVMD
14139	44507	A	14222	1	245	PPFRKQQAQHRNKTVLVRSQP VPVTVPE/PSA*RTPEGPRRAG CDPRP*PCPAGPELPAQMKVLA IEQLLSLHFKKALLF
14140	44508	A	14223	477	947	LCSSLSPPPPPPPPPPPPPPPPP PPPPSPVPLPPSPRSPVSPPPPH SFQGRSPPELGSSAEPWLRPGT WV*/PPPLTFSQEEAASSAQK*N CPGESVPQVPVTVPERQPDAAAP NHSLLLPGQQCFWCQGPHPY WMGPVDASSSGFLSQSFY
14141	44509	B	14224	438	1437	



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14142	44510	A	14225	584	2866	WHFAKLSRNTQDHTRP TLGAA QAVPATGQPAAPG PAGAGPEW VPFLAVYKEQLVRNDSVLKVFF FPPIFYREGWVCCSVVESH LQE GFVWLFSLQL*PPKLRSLFSLSY CLSPSDIEISRQGT PKAVDVL A KEIGLLADEIEIYGKILVSSAGF A*VVWEIL*NSLSPPELRITPTPL GEGKSTVTIGLVQAVSLGLCP S WQLYLVT PALPGQQSETLFLK INK*KDILFL*FNLHLTGDIHVVI SCELSKFM DN*LLCGLIFVLCFF RGILVTLCLFL LKLLTFFLLNH *KLGIN KTDPIRTMPDTHQVAG PYLSTDD*SVLFQ*SPAPCGNG HPTGTVADHYLCLGW/YQAQF DIAVASEIMAVLAL TDSL GREV PRG*PLPG*YFVRNLMFFSHLPQ IDLGFHASVCLLG F*FAFSL*G TPVFVHAGPFAADRDLC PYQFL LCQTHIYKIHVIMAEYFQRYKL MMYAKQTSPLCDLEQAISL SGC VPCRHS HLKNEKFSCTGC*QYL PKLSLPNSDPLTLPFSADYGFKF ESNHANHS GDCQNLPLFLEDNS TYSTCFPTVTEAGFGADIGMEK FFNIKCRDVLSFRSVV*AFLL L AV*LGRFGGRQYTG VVWLLFS FLQNIQLVADGV*MVSLSKT* LNGYRCKTTNIFFTRTDTRAEID LVCELAKRAGAFDA VPCYHWS VGGKGSVDLARAVREAA SKRS
14143	44511	A	14226	3	587	YPASAGLMLQNFGVIGLRYHF AIHSPAAGGLDGLHA VAAIQG ITKIETTPNHQRA PAHWTLTQ QAHLQPSPLHFNLP LTLCLMHC PTAIPHCFADARTWVNLPTSSLI GHKKENLKEFISGSLIVHEILEE VLQAEGDFQPFTRVT VHWGKG NDQTFRGLLDTGSEL TLIPGDP KHHYGPVKVGAYGAQLL

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14144	44512	A	14227	2	1256	CHCGPP/VKVEAYGSQVLKGVLAQVQLTVGPVGRPTHVPVIFPVPECIIGIDMLSSRQNPHTGSLTGRVWTIMVRKAKWKPLELPLRKIVNQKQYHIPEGIVEISATIKDLKDAGVVIPTTSPFNSPIWPVQKTDGSRWMTVGYCKLNQVVTPIAAAVPDVVSLLEQINTPPGTWYAAIDLANDFFPIPVHKAHQKQFAFRWQGRQYFTFVLPQGRWEINMTKIQGPSTSVKFLGVQWCGACQDIPSKVKDKLLHLVPPTTKK/EAQCLSGFRREIHIPHL/PIYRVSRKAAANFEWSPEKEKALQVQVAAVQAAWPLGPYDPADPMVLEVSVADRDAWSCWQASI/GHKVGHAQQHSIIKWKWYIRDWARADPEGTTKGQGRWWQLAE RQDSRDREAAIGERQETA VGK TARDEAVCD
14145	44513	A	14228	155	531	GNLWSVDLRPGTPLRQNFRTIRQHQSRFTKNHCSQTPLLIPIRQTGSGVDLSKLQQTCS*GSCLVCTIDLANAFSPVHKA/HQKQFAFSWQ/YFTFVLPRLTWLQPC*V PNLPAEETNTEPSNGT
14146	44514	A	14229	1	518	MTVDYCKLNQVVIPIAAAVSDVVSLLEQINTSPGTWYAAIDLANAFFSIPVHKAQQKQFAFSWQGGQQYFTFVLPQWYINSPALCHNLIRRDLDGFSPLDITLVHYIDDLMLIGSTIKWVVHSS/DSIIKWKWYVHDWARAGPEGTTNGLAG*SGTCKKHEWKTGDKGIRGRG
14147	44515	A	14230	281	1140	VRVLSPEKEKLKWKNTHTKLLSYPTVGAATQLNLAMGVI GSHGARGQVVALNRQGGDLQPFTRVTVHWGKG/NMQIFGGLDGTGSELTLPDGPDKHHCQPPVKVAGGGQVINGVLAQVQITVGPQTHPVVISPVPECIIGIDILSSWQNPHTGSLTGIMVGKAKWKQLELPLPRKIVNQKPYCIPGGTVEISATIKDLKDAGVVIPTTSLFNSPIWVPQKTDGSRWMTVGYRRLNQVVTPIAAAVPDVVSLLEQINTSPGTWYAAIDMANAFFSIPVH
14148	44516	B	14231	1	1521	
14149	44517	A	14232	3	202	
14150	44518	A	14233	2	367	

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14151	44519	A	14234	1	553	MTVDYCKLNQVVIPIAAVSD VVSLLSEQINTSPGTWYAAIDLA NAFFSIPVHKAQQKQFAFSWQG QQYTFTVLQPWYINSPALCHNL IRRDLDCFSLPLDITLVHYIDDI MLIGPRQLLACY/WALVETEHL TISHQVTMRPELPMNWVLFDP SSHKVGCAQQHSIIKWKWYVH DWARAGPEGT
14152	44520	A	14235	3	728	
14153	44521	A	14236	1	635	
14154	44522	A	14237	3	266	
14155	44523	A	14238	1	1245	
14156	44524	A	14239	2	837	CHCGPP/VKVEAYGSQVLKGV AQVQLTVGPVGRPTHVPVIFPV PECIIIGIDMLSSRQNPHTGSLTG RVWTIMVRKAKWKPLELPLPR KIVNQKQYHIPEGIVEISATIKD LKDAGVVIPTTSPFNSPIWPVQK TDGSRMTVG YCKLNQVVTPI AAAVPDVVSLLSEQINTPPGTWY AAIDLANDFFPIPVHKAHQKQF AFRWQGRQYTFTVLPGQRWEI NMTKIQGPSTSVKFLGVQWCG ACQDIPSKVKDKLLHLVPPPTTK K/EAQCLSGFRREHIPHERL
14157	44525	A	14240	1	533	
14158	44526	A	14241	1	1043	MTVDYHKLNQVVTPIAAAVPD VVSFIEQINTSPGIWYAAIDLAN VFFSIPVHKAHQKQSVFCWQG QEYTFTVLQPVHINCPALCHNPI LRDFDHFSLPDITLVHYIDDI LIGPV*NMMLHLVPPPTTKKETQ HLEVLFGFWRQHIPHERLATPSSP NGPMNKVTMMA/ANVG YAWD QKHGLPLTKANLVMAIGECV/ SPAAETNTPEIWHSSGQDSQ VQESKGGNGSGTTHHHP**STS KIFASCSDITFCWPRGLSSRGR NAATRRHNNNFNIKPEVKIAFWT LWDPPTFKSTG*ERS*SVGW D*HELPR*NQSTTPQGSVSIIPH GQPPHQLFGVAKARTFGIT
14159	44527	A	14242	1	336	
14160	44528	A	14243	3	1885	
14161	44529	B	14244	1	1423	

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14162	44530	A	14245	I	1361	MIISDAEAKAFDKIQPFMLKTL SKLEETASPSPVVATYTPQPM PSAFPPLSEENPVLPETTVMAS PEAVTRQDNVDSPQKPPPTPMF ASRPITRLKPRRAPSEEGIQLK KIGMVEWISHFRPTPLSMEGPE HILLTNTLLNRYVKAAPASLKS PLTALLFMSDLTVGTTFSQLQN LNTMGIFGSSCDRSQVAAI.NHQ RQVPECKIVIDILNIWRIPHIGSL TGRVREIMVGKAKWKPLEQPP PRKIVIQKYHIPGAITEISATIE DLKETGVVILTTSFPKSSIWPLQ KTDGSRWMTVNYHKLNVET PIAAAPVDVVSLLLEQINTSPGT WYAAIDL.VNVFFSIPVYKAHQK QFAFSWQGGQYTFITLPQGYIN SPDITLVHYIDIMLIGSSEQEV ANTLDLLPARVASWGVYPDQL T/GGRED*GLLHRWSCRICRHH PQGSWQES
14163	44531	A	14246	I	1795	MRKCGKPFKLQGTNKANSRI QEELIHSKSLIEQEGEKPVQFSA FHRMWQPADSQCDIIDSADIWA DPLVRHREITGSGGINRRRTRG GRGRGGEAAGGAENCGSREER ERAGVGTAVTQLQNLNTIGIIGS RGGRGQVAANHQRGQGHSHYC KGQKQNSNQNSVTHVELWHI WLNHVSVPSEIDRKPTTFLNL YKQKTSRDLWPFTRVTLHRGK RNDQTFQGLLDGSELMILIFED TKHHCGPPVKVEAYGGQVING VLAQIQLTVGPVSGTHPVIY PVPECIIGIGILSSWQNPFIGSLT SRKTDGSRWMTVHYHKLNMQ VTPIAAAIPDVVSLLLEQVNTSPG SWYAAIDLANAFFIPVHKAHQ KQFAFSWQGGQYTFITVLQGE TLVNFSLPDITLPHYIDIMQI GSSDQEVANTLDLLPRKSTTPS G/LYGFWRQHS/HLGLLTPY* VTQKAA/SFEWGLEQEKALQQ VQATVQASLPGVYDPADPMV IEM/SLDSPSHKVGCAQQHSII KWKRYVCDQA*ASPEGTS*LY CTSFIMEKEEVC/LSEQLTLTD MGLPILHAMLWHLWIHGLPY PSSWYSTQOCL

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14164	44532	A	14247	55	1241	NRFVRAAPASLKRSAGIGLLCM PDLTVGIVVTQLKLNAMGITG SELTLLIPGDPK*HFGPPVKVGAF GGEIVNKYLAQLGLTDDPVGPR THPVAIFPVPECIIGIDILSSLQNP HIGSLTRVRIMKKGAIMKGY YEGKGKAKWKILELPLPRKIIN QKQYRIPGGIVEMSATIEELKY AGVVIPIPTTFPLNSPIWPVRKT DGCWRMTVDYCELNQVVTPT AATVPDVVSLEQINTSPGTWY ADIDLANA VFSIPVHKAHQKF AFSWQQQQYTFTVLPQGWTV NSPALGHNLIQRDLDRFSFPRDI TLLVHYVDDIMLIGSSEQEVAN ALDLLVFSDDLAIKWMHSSIA SSSGSGICVIRLKKVLKAQPAP MASWGVLYDQLTEEEKIRA
14165	44533	B	14248	1	346	
14166	44534	A	14249	485	717	
14167	44535	A	14250	1	345	
14168	44536	A	14251	300	689	TKRAPCSPAAGSRGRARSLALL TLVYHGHYPALPPGPTPAQQPGR GLAEAAEPRGSEGGNGSNPCG RA*DGSRREGRGRLGGWRPC CEPQPWRQAHPAGPDRVDGG ERRAGVLRGQDQDEKKKPK

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14169	44537	A	14252	1	2430	MAVLQPSRHRLRPQLGLEPDN WHSQQDEVSSVATARA VVPSG RGA AWMGPSNGGSGLSVSE CGEGTGAAGSTQLQEGMHFCR QSRWAFLTALCEVYTQSLQDT VQWLQLCQWSAQGGDDHTLIE WLMGATWTVVNDAREIPETG TGQDAWLCGSGWVDDQRPVH ELAIHCSPNTVQRVLALVDTGA DCSLVFGNPVRKPDGTWQMTV DDWELNKVTPPLHAAVPSIMD LTDHLTLMELGQYHFVDYVHSP TICRGLVAMELAAWKCKPGVL LFHYIDDIMLTSDSLADLKVAV PLLWQHAAACGWAINKSKVQ WPGLSAKFLGVWLSKTKAIP AIEKIQA YPRPTTMKQLQTFVG LLEYWRPFVPHLAQMIKPLYGL SKKGATWDWDNEAGTDLAA KWAIQQTQALQVIDQGCPFELD VHVTTDGGFWVLWQRMCEFR TPVGFWSQLWKGAE LQYSLIQ KELAAAY AALQAYETVTDWA TVIVQMSYPIVGTGTATQTTL AKRGAYLEQQSMLTTPLAAE LQEALGPVLMEDKAMGPEAPL DPEPSLLKKGYPLVPDGA WYT DGSSQGA AAAWTA VAIQP/ITD TI*FDTGCGQSTQWAE LR VVE MDILEACQKCPACAQAYLRQR QLPNVTQQVTVGQMP LTRWQI DYAEPLPKLQGYTYALMAADI
14170	44538	A	14253	2	239	
14171	44539	A	14254	3	211	VVYYSPNEVKVVAEGFDSANG INISPD KYGL* NIFILQLWC WPNSLLCFLCQCENSFLDIYGIL
14172	44540	B	14255	13	87	
14173	44541	A	14256	42	854	VLVFLTAALFILPTFSNMMILQ VSGGPWT/VILRRGVLLGVAPP PSLPAL/PENSVYQERQECYAFN GTQRVVDGLIYNREEYVHFDS AVGEFLAVMELGRPIGEYFNSQ KDFMERK RADQLPDCRDPLMP D*GVWISPLGQV PNLTAQKTL QHLP SKKEPQQHDDL VYHVT DFYPDSIQVRCFLNGQEETAGV VSTNLIRNGDWT FQILEMLEMT PQQDRT*AGVQLLEVTLNLSLF FLEAQSDSVQSKMLTGARGLFI NYLQLNLCTP

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14174	44542	A	14257	3	571	QGRATPENYLFQGRQEYAFN GTQRFLERYIYNREEFARFSD VGEFRAVTELGRPAAEYVNSQ KDILEEKRAVPRMCRHNYEL GGPMTLQRRVQPRVNVSPSKK GPLQHNNLLVCHVTDFYPGSIQ VRWFLNGQEETAGVVSNTNLL NGDWTFQIVVMLEMTPO/QGE DVYTCCQVEHTSLDSPVTEW
14175	44543	A	14258	1	1677	
14176	44544	A	14259	2	430	
14177	44545	A	14260	821	1428	QVTDVQDFPLKCKIQWRRTVR GDLQ/PFTRVTVHWGKGNQDT FQGLDGTSELTLIPGDPKRHC GPPVKIGAYGGQIINGVLAQVQ LTVDAVGPWTHPVV/I/SPVPECI IGIDILSSWQNSHIGSLTGRVRA TMVGKAKWKPLELPLPRKIVN QKQYHIPGGIAEIGATIKDLKDT GVIPTSPFNPSI*PMQKTDGWS RMTVDYL
14178	44546	A	14261	507	910	
14179	44547	A	14262	1	2898	
14180	44548	A	14263	1	2580	
14181	44549	B	14264	159	2657	
14182	44550	A	14265	142	377	NHLLRRQQWQTPPPPSWS/SPR SSSDCCGSSENFKPVDSLGLSV GVGPTEPDHLDPLWLPFPQSGE RFCLAGVPGATG
14183	44551	A	14266	363	638	EVWKESGWHLAGAPLGQSFG RKEQAVIFAVLQPLLVIKQTGS GVDLQQTPAHLQQRGLSGCLQ SLCSLTSS*PQRHPQNSSLVNSC VVS
14184	44552	B	14267	1	2424	
14185	44553	B	14268	446	623	
14186	44554	A	14269	245	690	APSRSTWGSSTAARRNLKTTR KLRTPTPPHQPKNPHHGP TPSG*TPRNPDHPPPG/PQVGG PGCWAPSQGPGRGWQLGC*RE EVPGGGHAGRHSTPVGG/DFFL QAGPWPPDASLTPNPFVLRGAS TPPHPLSENNKDKFLQK
14187	44555	A	14270	223	365	

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14188	44556	A	14271	1	687	MSEYIRVTEDENDEPIEIPSEDD GTVLLSTVTAQFPAGCLRLCRN PVSQCMRGVRLVEGILHAPDA GWRNPVYVNYPKDNKRKMV LGLPWKTTTEQDLKEYCSTFGD VLMVRQSQDEPLRSRKVFVGR RTEDMTEDELWEFFSQYGDVM DVFPVKPFRAFAFVPFADDQIA RSLCGEDSMKGISVHISNAEPK RNSNRQ/LRSGRFGGPNPGGFGN QGGFESYQRCERKAV
14189	44557	A	14272	1	833	
14190	44558	A	14273	3	447	RGTAGGQPGNGPALAQSP*WC RLGSGGT*GKSPGTSQQRALPW CSC/SVSTWATAAPGSQQRASP CSWAQPGPLASRLMLPPLR* GHLGHLAWLQLFAAPCPVIHV AVMWSLLGIALRKVHGDWAPL AILSLVVCASNKLNKKKKK
14191	44559	A	14274	988	1803	RAARVPRAPLEAVAHRWASAS EDDGTVLLSTVTAQFPAGCLRL CRNPVSQCMRGVRLVEGILHAP DAGWRNPVYVNYFGDVLVLR QSQDEPLRSRKVFVGRRTEDM TEDELWEFFSQYGDVMDVFP KPFRAFAFVPFADDQIARSLCG EDSMKGISVHISNAEPKRN Q/LRSGRFGGPNPGRQLQGTRY PAPAPGSPGRAQGLG/AG*SRPS GSWLSGHLQRPEQSVGRAPAA PRHAVRRSLRRLAALCRRTAR CRRACLHVSPQRRRH
14192	44560	A	14275	3	184	
14193	44561	A	14276	1	352	KAAMVRFKHRYLLCELVSDDP RCRLSLDDRVLSLVRDIARV IIGTFGAACSIGFAGTIRTCQK FLIQYNRRQLLILQNCTDEGER EAIQKSVTRSCLL*EEEECEEA AKAME
14194	44562	A	14277	1	456	PTRAVEAMVRFMHRYLLCEQ VCDLRCRLSLDDRVLSLVRD TIARVHGTFCAIACSIALALARA LNEEGNPEGWRDVAGASAGGR KKGHECPSPCTVFCTLRYPNA YTVIGLLRCKELYQVWWSVL YLMTYLENKGHRYPCCFNTLH
14195	44563	B	14278	34	267	



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14196	44564	A	14279	3	395	SAEVGAAETTLTELRRTVQSLEI DLDSMRNLKASLENSLIGILLHL ESELAQTRAEGQRQAQEYEA LNIKVKLEAEIATYRRLLLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH
14197	44565	A	14280	2	1044	SSQMPSPQEGMCGKACTPAL QADSLCPLRLRLASEVEGYWQM ACAEPYVQSEMNDHLSVWSLQ HGSTTLASMSFTTCSAFTNYWS PGSVQVPSYGTQPVSHAASVY AGLGGSGSRISVSHFTSFGLA GMGGIQNEKETMQSLRDLAS YLDVRGLIETENWKLESIQEH LEKNRL*LETEIEALKKELLFM KKNNEEEAKGLQAQIASSGLTV EVDAPKS/QDLAKNMADSRQ YDKLARKNREELDKYWSQQIE ESTRVVTTQSAKVGAAMTLT ELRHRVQSLEIDLSTRNLKAS LENSLREVEARYALQMEPSLLF SKIIFGRVWEISYLHVFEKGQV
14198	44566	B	14281	247	857	

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14199	44567	A	14282	1	2104	LRGSELAGGVAAPDPSSRARAP GRGQGSEPPRRS*GRGRAPPRA HTPLDDFPGGRAALSPGRGLSS RRPDPGSAGRPLLLCLRPLHSP PPPRGCQAPAFQSLPSFHLALRL RSSGEEKLWGPRRAAP*SQR RKPDPARPGLAAPVLRPV*AS D*GAAQVPPPSPLRDGGQPGGR EGVGRRTPHRAAAWLLGE*AA DAAAFHWDGGRPPAAPARLLP GAPHHREDRVHHQPRGHPLQH QSPGDPPTPAGEQHASRH*LCRN PETQKLRH*TSERRDGHREEEH TG TAGVPRSRPATQRPVAVPAG GLQPHRMPLALSSGAASGGEA EHGQLSGRGREEDGPVWPQLP AGLQGHFRGESPRWPPCLGDGS EN*PGPVQAEFSGG*DPVSESE DNQPRSRQFLRLQREEKAKP/D QRFTYLPANVPPIKTEPTDDYEP APTCG/RGEPGVKSSPKTILQPA ARDATRPQLLPRGLPALSAEK HPDASSPWREPQAPRPFSCRHL QGRQCQGPLSPRTAAGRGRPR RPGVPRPVATHPGSPGQPPAL LPQQ*MK*YEMTSPARAPTFC HIGALSSAGVC*LQQTKE*IN *THTWYHSEPTD*MPGAEH*Y VQRLALQEGKQGRET TVSP GGEVIS*QKGGGAEHGRPTV QGP/SHGNPHAV*PHAQPFWH PWGSILEVPYLTRPSGHRIEH
14200	44568	B	14283	41	4224	
14201	44569	B	14284	1	1332	
14202	44570	B	14285	140	215	
14203	44571	A	14286	234	657	VQQPGRGLDLSTDGPGGRSQV GLIWSCCCLH*AASGEPGGRCP GS/GAPGPAGSALEFRARDGVP/ GVGGPSWESHSPAAATPPPAEC RGPPTPSPAPGEAAPEDREDG AAAPGRAEPASIVAPADGSQGG VLATQAGALGA

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14204	44572	A	14287	134	789	PDSQAPSRNSTRPAASTRKSSS PPAARSAGNELGSSRGDADPPP QNPTGPAPQSAEVPKCD/SSSA WASNGSSISPSFFSLRPWPSS/T KVPGAGHHTTPEGAGGASAR/S SSLAPSAGAPVPS/A*RSQLGTW LSVLRPRSL*QSRVRSPPSHVSS PGSMQAPNPSFQPGMNGAWI WWL*THIPLARWPGPPGILVITC PTVTWIKWSFICSFHPT
14205	44573	A	14288	465	1541	GPPKRKLLISNFSKVSQYKINVQ KS*AFLYSKK/QTESQIMSELPF TIASKRIKYLGIQLTRDMKDLF KENYKPLLNEIKEDTNIWKNIP CSWIGRINIVKIALPKVIYRFNA IPIKLPMTSFTELEKTTLKFIWN QKRAHIAKSILSQKNKAGGITLP DLNLYYKATVTKTAWYWYQN RDIDQWNRTEPSEIIPHIYNHLIF DKPDKNKQWGNDSLFWKWCW ENWLSICRRLKDPFLTPYKKN SRWIKDLNVRPKTIKLEENLG NTIEDIGMGKDFMTKTPKAMK TKAKIEKWDLIKKSFTAKET TIRSPGSEQKSHTLVRA TRL VSD HSQSFEAWLQFLGDTFRGTQKL RDS
14206	44574	A	14289	1921	3199	GYLAAGQVTSRIHTGRRHFSGP ARCPVSCCRRPGC*PQPAVRP SG*HCRKTA PSHGPSIWQTR**P GSWPNLRPG*GWRWLRAPRG RGIPVGC RSNLQLHPTKNPGSH *GSGSPWQCPGVLL*ASGRQPG SPSGGCT*SSGKAGLEPQWHPA IPGKCRNKPAAPASWERAPRPR AHALACGWWRYS SC*SWRS*S SPETPGPAQV*CHRPCAAW/W RCHS**TAQFL*D*FS*FLQTIGE PCICPKPISVPH*PMKQSHRGIG GCLQYSSHPGIESSLGMSRGF/D RRDL*TLQIGS*RHPRAGPEGA AL*CLAGESSLRTPSAPCPGSPH TPGSSASGNTSPV**ETGCGSRQ GSARLVLESLLSR**CLSGPSRP SCLLRGISWQCGTAGRLSSSGPP AASGAGADAAPGGFPRLPCLEF GTV
14207	44575	A	14290	3	626	

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14208	44576	A	14291	1	1065	MRGSCERSGEDDEEQKEEAMVA CGRLSGVPEAEQGP EANWDS LETEGTDGLGELVRD TLYLRSC RAHSVVPISCFLRQGS AQELNL RHRGLGPQGARALASSLSSNPY VKRLDLRDNGLCGAGAEALAG AL/QQKQHP*CGPVGEPAGSG RSPGP/RVPPSQ/CNQAMRKM LSGNGLEEQAQHLAE LLAH TDLKSLDLSYNQLNDQAGPAPS LRAFPQANIFLKVLDISYNGFG DPGASAVGEALKANNVLEELN MSNNRISAMGALSGLGLRVN QTLRLVLCVRVSQVSRNPMRS EGCFGLLKSVDNPA SALELLD FSDIQVNAEFDGLASSVRGILPG LGIKDWRLQSGV
14209	44577	A	14292	1	416	
14210	44578	A	14293	2	384	ELWVVTFSFMAYGSAKDLICTH FMDGMNELAIAYILQGV LKAL DYIHIMGYVHR/DLQGYDAKS DIYSVGITACELANGHVFPKDM PATQM LLEKLN GTVPCLLDTST IPA EELTMSPSRSVANSGLMTA
14211	44579	C	14294	142	474	
14212	44580	A	14295	1	1470	
14213	44581	C	14296	91	471	
14214	44582	C	14297	195	480	
14215	44583	A	14298	121	1130	SRSTQYELMSFLTNDASSEIAS FSKQEVMS SFLPEGGWYELLTV IGKGFEDLMTVN LARYKPTGE YVTVRRINLEACSNEMV TFLQG ELHVYKLFNHPNI VPYRATFIA DNELWVVTFSFMAYGSAKDLIC THFMDGMNELAIAYILQGV LK ALDYIHIMGYVHRSVKASHILI SVDGKVYLSGLRSNLSMISHGQ RQRVVHDFPKYSVK VLPWLSP EVLQQNLQGYDAKSDIYSVGIT ACELANGHVFPKDMPATQPM VLVLSPPDAARETERHSALPVG YQHHIPR*GADHEPFALSGQLW PE*QPDHQHPALQR*LALPLP PNLLPPLPPLC
14216	44584	A	14299	304	412	
14217	44585	A	14300	2	350	
14218	44586	A	14301	191	299	HRPATAVLHVPTSPSPSGSRPS *PPPAALLWTPA

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14219	44587	A	14302	537	5523	LARYYKFMHQDRQGVARNLL CQKEKRR*YTTKCEDNTCHWT GRTSS*PRSV/SNLNSQCQPRLW PPVTIIRQANIKTGEKAH*TSKL LPPVQLKFPARDDTLPPWPGYIP* QLRRPSPR*SILSMLPRKVVPCL *QKP*TVCWKF*EPLSYIIHSLV LKMMIPMPMTLLGA*CLTQAL K*SRMERKKGRAAQRSSLTGC QSPRGSPGGPGPPGPPGAGKQ QNSNVQTSRLLARTLI*SFSSST VKDKELARNTAP
14220	44588	A	14303	2868	3095	PWAGGLFGPSAGMRAWATK PSLTPPAPAGQRCPCQGHRG*SG PGIYAVQPPSVPAWAAHATTQ ARLCHPRSPPLR
14221	44589	A	14304	693	821	SDRQT*RQEKRLTRRQSCCLPC N*SFQPETTLFHGPDTFHDN
14222	44590	A	14305	338	645	
14223	44591	B	14306	181	480	
14224	44592	A	14307	155	543	
14225	44593	B	14308	1	1260	

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14226	44594	A	14309	1	2025	VINIINAAQESSMPMPVTEALDRV LEILRTTELYSPQFGAKDDDPH ANDLVGGLMSDTGLEIHKDGEE EGESRTAQQYPGLSESTRQPWR RSRTPTTTGWGKATEQCCPDF PPPGPHPLELLIFHCEGQGTGQ KHSTSYPTLMSEKRGMLNVPF AKYTGPMARKSSGLTPSLHLHY CADPLHSPKPLFNCPPPTTSKTEI LGCNCNCPSESVRGAEGDQEL LANIKQAEKHEKNHPVETVAM ALTDIDLQLQFSMSQPEALLLL AAGPADHLLQLYSGHLQSAT GIYGEGRASSATLEDLESQYQE LAVALDSSSTIISQLTENINSLVH TLKEEKHEIHQVQKLGRNLFKL KNQTAEPLAEPPEARPSKVEQL QDETNLHRKELESVGRQLQAE VENNQMLSLNRRQEERLQEQ EGWQEEQERLLDKNNENKSAL QLEQQVKELKL\ENLEATSQ*K QQL/TAQLSLMALPGEGDGGG HLDSEQAAPRPMNPNGDLESR EAMVAFFNSAGANAQEEQRVC CQPLAHPVASSQKKPEVAAPAP ETGGESVCGETHQALQGAMEK LQESTSARGQCQRRTGRGGHR QAGPGPGDEEMLCCTCTQVSS AGRGMGMLTVVLVSLMMLS ASFSTWCMRSISSCHCAYSAHS SISVFWFPREYILASGSEMMNS
14227	44595	A	14310	3	564	SLRVSLKAVVDRAGRSILSYIA GLGVDLFGGGGSRVAGGIADL GRSGGKATRSRRGSRAGGGR LRSRIHEEALQLRETPGGAPE\ PMDQEQYAGPGYDIRDWELRKI HRAAIKGDAAQ/VWSAAMTRR FRDLDAARDKDRTVLHLTCAH GRVEVVTLLSRRQ\DICD\N* NRTPLMKAVHCQEEA
14228	44596	A	14311	515	778	GQAQGTGDREGAVLFTARAPD QCRP*SCSSSRPTASSCPLGHSC SPGPLCTHLPLQGPPQAPTVP ATATCWFSWNQCRCAVSSYP
14229	44597	A	14312	411	608	EAEI**TGLPGHSRPPGPLCTHL PLQGPLGAAAWVPEAGLGQVP TEAAGARAGCSAHKPWKRRK
14230	44598	A	14313	2	338	
14231	44599	A	14314	1	390	

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14232	44600	A	14315	237	488	PWKTLDSSEAEILRGVSESSAV TLHCMEGQAVGPRQVKRIVHC *ASSA*NPHAMLLQNR*LALC TSVPQGA AVL CGGWDPGN
14233	44601	A	14316	358	616	
14234	44602	A	14317	13	1155	IKLPPPGCRRRGRHRRHRYRG RAEPLAPRRRLPPAPEQPRARP PASRFLKNTMSNGYEDHMAED CRGDIGRTNLIVNYLPQNM TQD ELRSLFSSIGEVESAKLIRDKVP GHS LGYGFVNYVTAKDAERA I NTLNGRLRLQSKTIKVSYPSS EVIKDANLYISGLPRTMTQKDV EDMFISRFGRINSRVLVDQTTG LSRGVAFIRFDKRSEAEAITSF NGHKPPGSSEPI TVKFAANPNQ NKNVALLSQLYHSPARFGGP VHHQAQRF RSPMGVDHMSGL SGVNVPGNASSGWCFIYNLQ DADEGILWQMFGPFGAVTNVK VIRDFNTNKCKGFGV TMTNY EEAAMAIASLNGYRLGDKILQV SFKTNKSHK

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14235	44603	A	14318	1	2340	MFVWRNVEGHSAAVFSWYSIP FLTPPCSHTRPSNLVPTQWPTR ENNLPSWQPLLMSVHQAQSL ALRKEQDSSEKDGSRPNKSDK DHIRWPMSGAHDLQQAAPGPG GAHQGHPNQDNRTVSQMLSER WYTLGPNEMQKYNLAFQNV ARIRYVIVRGNEQGGFRMHHLR GVSSLQLGRRRPGPGTYRLEV DMITIDARYRCSGLRSPDPDH LKSVDLHRNEHFFLQKARWEI LVLQATPSQIQLLHVAFVLAQ PLRCRKQTLFLISVVGTKEN VASEGRNPVRPLRGHRWLPASP AAEHFAGGADRKSRAPR ATATPANEQRAVADVQWAR ARGGRVRAAGRSGSCALRRSR CRRRRRRHRRHRYRGAEPLA PRRAASGQPGKLARRGINCNA SSIPMLQVVRIKSISKHCQMAR VAGEGSLPLSHAQLTHCVFGN KQVQRTIAYLPQQQGVQGL KNTMSNGYEDHMAEDCRD RTNLIVNYLPQNMQDELRS SSIGEVESAKLIRDKVAVG LCLCVPIRNVIVASTSWWSL PLAPYVPRGIRRSQPTLMD DLSCRS HQAAAPFTASVLL YISGRVKAHTAAQGFNHI PEEGVSQEAAGSGWSQA WKDGLTNVFMFSGTGH SLGYGFVNYVTAKDAER AIN TLNGLR/PPVKNH* GRPLQLGFL
14236	44604	A	14319	701	1050	LIVHFLQVQCGVGNTVFPILQ TN/NTNSEYDPSRCFAFVH DLCDDEKSYVPVKSSLDI IILFVLSAIVPDKMQKAI NRLSRLLKPGGMILLRDY GRYDMAQLRFFKKGIL KVLNPNH
14237	44605	A	14320	701	1519	LIVHFLQVQCGVGNTVFPILQ TNNDPGLFVYCCDFSSTAI ELVQTNSEYDPSRCFAFVH DLCDDEKSYVPVKSSLDI IILFVLSAIVPDKMQKAI NRLSRLLKPGGMVLLRDY GRYDMAQLRFFKKGQCL SGNFYVRGDGTRVYLCH TRCNWTRFSPTAGLEKPK PVDRLQVNRGKTTDNPGL DSVILQAPSVQHQLRGYLL PTRCKPVVVSGLFLKKI VALGVV/RCL*SQPLRRL RRGGSIE/HQQSNLKGIV RDPVSESNDKIKRI



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14238	44606	A	14321	756	1334	PGKFVLSFLDPQPPTRILEVGC GVGNTVFPIFTNRTMTQDSL VYCCDFSSTAIELVQTNSEYDPSS VFVAFVQGPV**RESVTQCPRAV LDHILIFVLSAIVPDKMQKAINR LSRLLPKPGMMLLRDYGRYD MAQLRFKKEELDITFTAGLEK VQNLVDRRIQVNRGKQLTMY RVWIQCKYCKPLLSSTS
14239	44607	A	14322	249	474	VYLLIVLAVLYTNNRQTESQIM SELPFTIASKRIKYLGIQLTRDV KDLFKDNYIPLLKEI*EDTSKW KSIPCSWI
14240	44608	A	14323	1	5796	
14241	44609	A	14324	1	2721	
14242	44610	A	14325	1	3438	
14243	44611	A	14326	1	3306	
14244	44612	A	14327	1	2364	
14245	44613	A	14328	1	2091	
14246	44614	A	14329	1	2334	
14247	44615	A	14330	1	1986	
14248	44616	B	14331	1	2559	
14249	44617	A	14332	1	1671	
14250	44618	A	14333	1	1845	
14251	44619	B	14334	1	2055	
14252	44620	B	14335	1	1554	
14253	44621	A	14336	1	2559	
14254	44622	A	14337	1	1714	
14255	44623	A	14338	1537	2204	

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14256	44624	A	14339	2004	3751	YQSLAETQQQKKNFRPISLMN IDAKILNKILANRIQHHQKLIH HDQEGFIPGMQGWFNHKSINV IQHINRTKDKNHMISVDAEKA FDKVQQHFMLKTLNKLIDIDL EVLARAIRQEKEIKGIQSGKEEV KLSLFADDMIAYLENPIVSAQN LLKLISNFKVSGYKINVQKSIQ AFLYTNNRQTESQIMSELPFTI ASKRIKYLGHKLTRGVKDLFRE NYKLPLIKEIREDTNKWKNIPC SWIGRMNIMKMAILPKVNYRF NAPIKLPMTFFIGLGKILLSSY GTKKRAHIAKTILRQKNKAGGI TLPDFKLYYKATVAKTAWYW YQNRDIDQWNRTEPSEIMPHIY NYLIFDKPEKNKQWGKDSLFN KWCWENWLAICRKLKLDPFLT PYRKJNSRWIKDLNVRPKTIKTL EENLGITIQDIGVGKDFMSKTPK AMATKAKIDKWDLIKLSFCT AKETTIRVNRQPTKWNENFATY SSDKGLISRIYNELKQIYKKKTN NPIKKWVKDMNRHFSKEDIYA AKKYMKKCSSLAIREMQIKTT MRYHLTPVRMAIKKSGNNRC WRGCGEIGTL
14257	44625	A	14340	519	1286	LNLEERAFRHKSSEHLPHLKVH FRHSSCGIKTSLHVSPTTLIF PYPPLWGNPSN*ARPPCSVHSG PYPQGLASIIAHGSPGNVRGVH V*INDEGGISRPSTASHKETPR PPTPARHADLAATRPSLTTPSPS VGAGPRA/PSRAGPSVGGGLGRP SGRAPRAEVALPAGLSPAGLAG PPPSGRSTGALPPAAAPTSTGPP ASTPPNAPAGHTLSSRSFHRA ARPPPHCGAEWGTGFTMRPSW RISQSFTVKDS
14258	44626	A	14341	482	700	

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14259	44627	A	14342	1368	2416	SSMTQSSCPMTSYLKSKEGEPL MPSYTNPTETGVSKLVNKTQVF TYAHKGPVSIYFDACQAAHLSK LNNIWTISVKI*DKKESASRATK AITEESKKECPDCDNQWTTHEF NQHLTYGRAALFASQEEKIGYT TGTCYPLNLTLKPNMTFWTKG HKGLLTFDQAGALLGLPLVI TKKTQRTQVQLSPIQQFRFYKS FNEHFNSEVSKIQIPPISTENLFV QLAKSIANNLGVTSYVCGGA NMRDQWPWEARELMLQDNFT LPEFVTKFNANPSVWLLRNPIIG KYCIACWGKSFQNIGETTCLG QQYFEESNRTQWRSFIDSSIG HFNPLQFPTLNQSWYQLE
14260	44628	B	14343	1	1071	
14261	44629	C	14344	89	283	
14262	44630	A	14345	244	315	NPKGQKQDREAPLSRSVFVLKIKI KRAFALLHGRF*PSTPAASASP ASKSPRGSGKALASALFYIVQL TK
14263	44631	A	14346	1228	1656	QVYRPSQTPHLALSPERVAPGR RAAGRLAPEARAPRGSP/LPPHR VSEKTIRVVVFHGPARRAGGT PRAPRGDTGGAPGA\PTYSTPL MSLHRRARLESPTGSSFPADSA KPVPLAVVSLDSR*GQWESRSS IHAIVTN*MTRI
14264	44632	A	14347	2	705	GSWFGLDDGSATRILACPWPGL GDGPAAPKANLPLVRWKPCQCF RGEGL*GSSCFSATLLTGLDLW ACCSSRSASARLSTYPSAFTSG WCSSLGPTEEAPGSWINCLAG ILGAATSPKPSAIPQASPEVSLD AEDTGMKP*DSA/GPPGPARGL CGRGGLSPACMGLRP/PSPPA QSPSTALTSLTPSPFHPPRKKW SPPSAPAPSAPSAPASLTSPAP PAPSPAPTAPAP

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14265	44633	A	14348	367	1174	WVRGQPSQSLDLLACSTPTS* WPPGRAPPPLP/PPPPLP/PTP ASPLLHPRRAPPPVP/SFTP ASPPDPVPRPTKALTGLP/LCP LPCMGR/PFVPYLGGLPCLGP DFSSL**SPGGWDRPVRPLGISQ IPE/PPLTMGL*MQ*IPP*PRFQG HYAPLPPLQTLICISVKTGRNPR GLPMHKILQPQNPSQPPCELQ AHCPTTPPPKQCP/PAAFSILPVT FADKDPGAAPEGTVKAPMPTQ *EL*PLRPREHRVLSGPTAGQT
14266	44634	A	14349	332	988	RRAGTPASWGHNGARAKTPSR ACACGLYPIHQPTARRAPAAR SHGPGPPALPRKGAAGHGRSVS HHPLRPCSRSSCLAWPCLHHQ PLHCHPHRHWPKWHPHLAPH PLLGLHPRSRPQTPPWTS CGPSR RLPTPGSWPAPFDRDWP*AR PSALCCPFCQEPQLTPCLHLCPH PHPHRHLPGLSCPHRPPRWSP QSPCPWVLLWWTGQWWQPGE
14267	44635	A	14350	190	718	FVLQLPPAPKSGLGRWGSPPPG QFSSSQRTGTVRGRGCAEPGR SLPHPT*GNK*HGNWMGLGS QGLGRQPGEDKH CYQR/IGV GAHLLRPPHQIRSLTSGSGCS HPWSRELGCSDQGRASAPLA LRQAWGEGLAGRNHTIVPFHG DISIAPRLLPCRETLFSAICGGES
14268	44636	A	14351	1	486	MKGEVSCQHQDALQQVLWA MLQDADKQVRAPGPVENENH CDFVKLREMLICTNMEDLREQI HTRHYELRYRCKLEEMGF TDV GPENKPVRLVLLFKSLSDSKRVK YDEEWIRLPVE/MKY/MLERKV TQKQP*VPLVFVSWRSR*ESLR REEENQQCHVLEL

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14269	44637	A	14352	1	2380	MMWSVLIQPVVLA AVERQGE ALEFLIGVPESDGENGTKLENT LQDIIQEDFPNLAQAHVQIQEI QRTPQRYSLRRATPRHIVRFTK VEMKEKMLRAAREKGRVTLK GKPIRLTADLSAETLQARRDRG PIFNILKEKNFQPRISYPALKSFT SEGEIKYFTDKQMLRDFVTTTRP ALKELLKEALNMERNNRNFFG VTF AFFVGGQSLGKALQETSIPP LREEDLEKTSILETNGDWEAT RGLPEECAGMRERDCQONEKY QVPQFDQSTIKNIESAKGLDVW DSWPLQNAAGTVAEYNGYHV VFALAGSPKDADDTSIYMFYQ KVGDNIDSWKNA GRVFKDSD KFDANDPILKDQTQEWSGSATF TSDGKIRLPYTDYSGKHGKQS LTTAQVNVSKDDTLKINGVED HKTIFDGDGKTYQNVQQFIDEG NYTSGDNHTLRDPHYVEDKGGH KYLGLIPTYDISSNIYLSKSLW QANFRLNSALAQSPAITNFQFR GHSLKTLDLLTMKNLDSKVNI PVIKADTVSKTELHKFKIKFM SELVSNQVQIYQFPTDDDTIAK VNAAMNGQLPFAVVGSMDEIK VGKNMVKARQYPWGVVQVEN ENHCDFFVKLREMFICTNMEDL REQTHTRHYELRYRLQLEEMG FTD VAPKNKPASVQETYEAKR HEFHGERQRKEEEMKQMFVQR
14270	44638	A	14353	105	328	
14271	44639	A	14354	107	676	IRPDSLPSASPAQDFYAASNTF PA/DRWSALTKIYEDQTSNIP SQ/TLIQSKALTLFNSVKA EKDE EAAEEKFEVTRVVHIRGLIDGV VEADIVEALQEFGLISYVMVMS KKRQALVEFEDVLEACNAVNY TADNQIHIAIGHPAFVNYSTSQKI SRPGNSDDPEREQCASLYHPEP HLFDHHGCSLHYR
14272	44640	A	14355	221	648	LDWLRRVVGIPSLRWTCATLV GTRRAARHRCVNVWECGGKKE ITY*SVGLRCRA/EKPKPLALLE ETCKLPERQVVNAKEKFL E EIK SATPVNT*MIRKRNCIITDMEK V*AVWIEDQTSNHLPLSQSLIES RALTLFNYVMA
14273	44641	A	14356	122	317	

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14274	44642	A	14357	338	489	WLGQN*RHGKQPGPGVGHVGT TVWS*PHSPACWAPAPQGPAPT GEEGCHF
14275	44643	A	14358	1	459	RPVWRNSQPPTAAAYRWASGSR MWSTSFSRW/NKTPSGKACSSS DKGPPMAQVPIQQRNVPPPTK/ QPLVLCHGEAPDFSRPPQHRPS LQKHPSGG/PSHSPLPTSA PSSR AGLPLAMTLDLTSGWRLWTPI QPFRLPPGSCREGTILLCSVMD
14276	44644	A	14359	609	2077	GLKAQPSRSSRHSRGPGACAAA PASRVHLPVTFCEPNSSPCPHC TGGWGGRGQ/PACAGNPTASSP CQIECPALRSCLHALMDLGSQA LRGAPRTGVDPRLHLLPQPAL SSPPVLLRGPLLRTCLAAARQ GQSPAPGLLGHPGSHRGLPP AQGGHRLPQPPGPGRRHRAPQP DPRRPGLRAAASGPGLAAWG AVRAAERPGSGGLPGGAGPHH ARAQPGPRAAPAAAAPGVAP AGGGA VPGGHPHRPGGEAALP AHGLPAPAAERTAPR/QPCPAC GLIARSDVHHPPVLP/LSGPAP APGRLVGQLGVRGAPSSPVPH ALHFPRAQ/PPGKGITTTSTQ PAGSPSPCMPPAATPG/ARHPP GSA\GHRAGV*GHTGPCDPHGP GHIHGAQLL*/DQAAVGVVGP GPWALSGMSQPPT/LPTAGHPA PACGVRAFDGTRPPRAKPAL/ LSDKGPPMAQVPIQQRNVPPPT KHPCPGPQSSTWMRQ

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14277	44645	A	14363	47	1250	EPRPSRSSGGPQLGQGLPRPMK KIPGSSAKTAGPLATRPEVPRAP *SAGRQPFWRPWPWGKGRKT *NHGSPGVK/TPGPLNKDKGE KEERPRQDQQRKALLHMFSG KPPEKPLPNGKGSTESSDYLR SVTPGPWSFSPQVASGPMVH TTKKPA*APPQVL/EPKERQTGA AADMPQPAVRHQGREPLL VVK PTHSRPEGGCREVPQAA/SQNPR PAPGLQTPGTRQTS/SVTPQPCP PAATHSLGLGSLNLSFGPGAKRP AQAPIQACLNFPKKPRLGPFQIP ESAIQGELGAPENLQPPAAAT ELGPSTSPQMGRRTPAQVPSVD RQPPHSRCLPTAQACTMSHHS AAGHDG/DPASQSALPETGKRT LELQPPGGPLISL*EAGSLSRSE PSCVREV
14278	44646	A	14364	23	714	EAPEIPRQNRMTMKERPVL PHK*IHPNVAKWSRVPVQVQK NPQFQE/PTPEFIPVPGTSPEAAG FWH*GAHDSPGTRDRSEVEPGR GHPHLGPRDSAAADPGHSPCD CP*ACPEVRRWPA/APVQIQYIIP SVDDFSLEFHAQDGDIDMRRE NVPFSPAEEGKAAPLYQQPLMI PQANHMAGISPS/PTAAEFQHR DVHHRGPGTRDRHTTETGRVC PHPVPTDSPAL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,117	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
14279	44647	A	14365	3	1869	ITTVAPSRPASSDCESDGS*EQD AGPGSRMGPEK*AGPRPTRRVG RWSQTHSQDDTSGAVVPEYP SDR*YAGGRGPG/PGGPTVHP* KRRS*NPQETKMMARRDPKSW AKRLSPV*PRLAALLTSASPSCP LEPRVLPFRVPPSHGLCEGTSYP NSPGT*RPPCRSSAKTAGPLATR PEVPGAP*SAGRPWFQRPWG KRRG/GKPEPMEAPG*SQPGAL EQG*GREGRETKATRPAAEEGSP PHVFRETREAAAEWKRIHGVF *SSEGHGP*FPFSFPSAGGNRGT PLSCLLGVDRDSTILPGCKRANA GPHNQ*EAARGPCPR*SIAAE MSGRGSVLASLPLRKASLSSSS SLGPKERQTGAAA/AHPSACSQ APGPRASPRGEADTQPPRG*LP RSSPGCLQNPRPAPGRQTPGTR QTS CGDL/SSPARQPHTAWA* APISASGQEPRDLPSSDSGLPEL PQETETGSLDPKRKHPRG*AG GPGKSPTSASRNRTWTKYVAP DGQEDTGPGAQRRPAASAQQT LPA YCPGLHHVPSLSGQP*WGP ASQS/GSSGDWKTADAGAPASW RPPHFTLLRSREPSLRLMCQR SLRLPVFVSHRASSMRTRFPPPP QRTAILTWS
14280	44648	B	14366	1	1519	
14281	44649	A	14367	312	1326	TTKTGQDKDRLEEFMSQQLSGS KRMSTQPRTELPPNRHTTTTS TTPA TNTTCTATVPPOQYSYH DINVYSLAGLAPHITLNPATHP QLKQCVRQAIERAVQELVHPV VDRSIKIAMTTCEQIVRKDFAL DSEESRMRIAAHHMMRNLTAG MAMITCREPILLSISTNLKNSF ASALR/PDGSSAIQL*SNDS*SCS WRPKLYDAFWDLSLRV**PSR PEGEGRVSSEGMSGESLPFSSSW PRQYQSFLCICWTDAPARNTED R*SHNKVLSSVY*NVC*NQLPC SG*AAQSCCQSHHDPQVLSQ PGCLCSTHCTARETLRGGHQHC HKD*SAEQGL



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14282	44650	A	14368	2	1120	PEPEPGARGGEQLNEDFEG*VA VPTCLHCPALSRQTQRAIQALT VRRGEATIRPPPCDDTKGGHRF LNELIKVVSPKVGAPSPSDDLPC RMWGEERGWTVGLPEEVKIAE AYQMLKKQGEAHRGWGATRA CLPLPHHERPKNVIFEDEEKSK VRLQGGTYGDSEPRWGSVGS! KEMVQF/DSGRAQSTGRRRDG GIELGHNVKLLTEMVMSSHSG GAAAGSSEDLMKVHLPPCLPHS LPTPQPTRTLRMRPTLFLASDT EDNDEALGEPRAGAEVRSPLP PPPAPVRGEEVNGDATAGSIPI EEVAGELGGHPSGWRGTESYP AMPTRPGEQASPEQPSASVSL DDELSLGEGARPGGGRAQQ
14283	44651	A	14369	1	432	GTRQEVTAGVEPAREWQRRRLM EVQWGLERAPYCIQHAPR*RRS PARPGTQSCGLGACWIO*GALS SPHCTSISRCHSLAGSTPAVTS CLV
14284	44652	A	14370	16	471	
14285	44653	B	14371	66	206	
14286	44654	B	14372	234	390	
14287	44655	B	14373	207	427	
14288	44656	A	14374	2	572	FLLERAPYGVGFSLLPGLWLGS RAGVGRHHDKRVGLGRAPTWS LEGAVSSM/TPRPQLCVP/WPC WGPSSPGG*QQLGQLSCSYSLV DR*VALLWFWMLVGSPLVKGH CPTPWSRFVDFSVPLATPPGIVY WGLFAVFLFSHLLPARPGEQMS ACCRHLHAPSSPLLTLDSLKVY SCNSQGLVVRVFPFGD
14289	44657	A	14375	175	499	KQNKSMGRKSQGFVASFGNHL YCTASCGMPASSTSTQTWPRVL PLHSQ/ESSHGCSWRGRR*GP RPRPHKTPVPMVMDSTARNRA RRELVLAWCKSPLATALLVSW DK
14290	44658	A	14376	408	625	VFGQEVEFGYMNKFSSGDF*DF GAPITLSSEHCTQCVVFYPSAP SFPFPPV/PKVHCVIPLSLVPTYE WEHTM

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14291	44659	A	14377	1263	1812	AGDAAPEDPAGRGQEDLYDEE LPGWGLCIPHACLQPCHA*VT KAG/ARVKVILPS*DTQRTKDIL KAGGG/PSSIHFINSAHGKPAVI VRPRGIWVLNITPLSGQWGPVI GVYTAATVDMKSLGSGSLGLQ LALPLAASWLGVLTEAARVFG EQVVFGYMNSFFSGDFWDFGA PITRAVYTVPNV
14292	44660	A	14378	1	693	WDYV/KRPNLRLIGVTSDEGEN GTKLENTLQDILENFPNLRQA NIQIQEIQRTPQRYSSRRATPRIH IVTFAKVEMNEKMLRAAREKG RVTHKGKPIRLADLSAETLQA RREWGPFINILKEKNFQPRISYP AKLSFISEGEIKSFTDKQMLRDF VTTRPALKELLKEALNMERKN RQINETENQGGYPGIELGSAPEG PNPLFCRHLQMSVDGRHLQNSP PQINRIYIFLAPHHTYSKIDHILG SKTLKKCKCRTEIITNYLSDHSA IKLELRIKKLTQNCSTTWKLNH LLNDYVWVHNEMKAEMKMFF ETNENKDDTTYQNLWDTFKAVY RGKFLALNAHKRKQERSKMDT LTSQLKELEKQEQTSHKASRRQ EITKIKEELKEIETQKTLQINES KSWFFERINKIDRPLARLTKKK REKNQIDAIGN
14293	44661	A	14379	2	1299	
14294	44662	A	14380	2	383	
14295	44663	A	14381	1	1536	
14296	44664	A	14382	2	1118	REHLAEGMAVGTSADLNISA CWLRRQQISQHSARALLRDRL PPQENSSWHPAGAPLGRNFORK EQAAIFA VLQPLVIPRKTTGSGV DLEQTPADLQKRGTLVTRKTN KQKAIASTSTERTPTQKPPFKSH QHQRPNVDKSAKMRKNQSKK AENSKNQNTSSPPKDHNSPAR EQNWTENEFDELTEVGFRWV ITNSSKLKEHVLQCKETKKLD KRLEELLTIITSLEKNINDLMEL KNTAGELRDAYTSINS*IDQAE RISEIGDQLNEIKCEDKMREK MKRNEQSLQEIWDYVKRPNLR LIGVPESDGENGTLENTLQDII QENFPNLRQANIQIQEIQRTPQ RYSSRRATPRIHIVRFTKV

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14297	44665	A	14383	1	1154	MLPILGSRHPSSLGQARKLDYR PSKSQCLEPGTPRACLVYTLV AKLIYNDYFIHYFAPRGLPPME KNVVFVIDISGFMTGKMKQD HNFLSAREQNWITENFDKLME VDFRRVITNNSSELKEHVLTOC KEANNLEKRLDELLTRITSVEK NINDLMELKNTAGELREAYTSF NSCNDQAEKISEIEDQLNEIKP NLRIGVPESDGENGTKLENTL QDIQENFNSLAKQANVQIQEI QRTQRYSSRRATPRTHIIVRF TKVGNGREKMFKGQPGGKGR VTLKGKPIITLADLSAETLQAR REWGPIFNILKEKNFQPRISYPA KLSFISEGEIKYFTDKQMLRDF VTRPALQELLKEALNMERNN RYQPLQNHAKM
14298	44666	B	14384	1	1554	
14299	44667	A	14385	1	909	
14300	44668	A	14386	2	207	DIMSCILQNYNRPVMAIAPIA VKFLHRGNKELCRNMSNYLSL AAITKADLLADHTEVIVKSILQ
14301	44669	A	14387	496	1207	PLITGTHDSGSVESQLIKLILTM HQLFRLVLGQKDLRAGDLFS *NNEIEDSLTEALEQIKIHSSSD YQTNNNDQAVVEICITRITAIR ETESIEKHAKALVGLWDSCLEH NLRPFKDEDTPHAKIASDIMS CILPELQPTFQSMALAIPIAVKF LHRGNKELCRNMSNYLSLAIT KADLLADHTEVIVKSILQGMVR KLSLGTCTGFRYLKVFSSSIYGL WEARPRVLEAN
14302	44670	A	14388	219	448	VSLELCLKTTGPDCCGQTSQTP PAAAYHHLPAGAGLPCGRLPA LCCSCPMGARPL*HHKR/DPSRF QEKTHLYLPSSH
14303	44671	A	14389	542	1365	GTEGVMANRSQEGNGGGSWR AKQVVVTVPF*EQSLVIMLWR RGGNT*QRPSEGTSSSHCSFH MSRHQ*CKCLLKEP/VSAEAR DALDTKTTHFLAMIPSYLLNG NIGELPEGPAGGCAQNPGLWAS /RGPARR*RSQASSPEVRWPPG QCGLRGRPKCKE\PRPHWPSP CASPYRGAGGQRLRACSAAG RKTPDRRLPEPTRGPVSQRAV LGKLRAAAGHRIPIDGLDGLS LGAPPAGRHLHTVPLRRREFSP CEDALGIGEQQGKKRV

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14304	44672	A	14390	3	723	PVLRGGIQEFAYIKALYERKFL VPKPIDYNRHAVDMELINGVPL C*IIHHVEDPASVYDEAMELIVE LANHGLIHGDFNEFNLIILDESD HITMIDFPQMDSHTSPNAEWYF DRDVKCIIDFFMKRFSYSESELFP TFKDIRREDTLDVEVSASGYTK EMQADDELLHPLGPDCKNIETK EGSEFSFSDGEVAEKADEVYGE NESERNCLEESEGCYSDHLETL NK*RKTVYQKRVLMHGVLLK
14305	44673	A	14391	I	1889	MGSKVKEVEDDSQMSDLVRG MNAFSKTGSGGVEQGRGTGQGG TNGHIKKAKARDRRRFFKTP QRKVGNDNLQLPLRWTEQHAE THIMNFCSKNYNRNIPGKPRESI DTLNEAACRGRLSKTARKLWS EAQDQRSFQATEMQAFLFSAK RIAAEKKTIIRRRDLCSIWGKLL PRPGSQSVPAQIPENLQEQEERA KWLNLGRSKFFPQTSTLKGVT SNKTGVKEPELESRQPNLLKVE MGMKNHIEIVPGSLIASIASLKH GGCNKVLRELVKHKLIAWERT KTVQGYRLTNAGYDYLALKTL SSRQVVESVGNQMGVGKIESYI YIVANEEGQFQALKLHRLGRS FRNLKNKRDYHKHRHNVSWL YLSRLSAMKEFAYMKFRTLEIR DYFYVWKINVLTPGCSPKRGSS GEFVPCLLQLLLGFGDCWHSFG LWHITPVSVSMLTLLPSLLLVK QKKPTLDSRMGQDFVVELQL YLCVLEREVIREYPPDGQIFGRY FDRDVKCIKDFFMKRFSYSESEL FPITFKDIRREDTLDVEVSASGY TKEMQADDELLHPLGPDCKNIE TKEGSEFSFSDGEVPEKADEVYGE SENESEERNCLEESEGCYSDHLE TLNK*RKTVYQKRVLMHGVLLK

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14306	44674	A	14392	150	1910	STPPGGPSVLM*STEEPGAGRS QPLCDDLSTRPLSCLGAGCCLW PAKRISAKEEPWYSSRSKDKKE KNYSSPETTTSGGCHSPGDSQY QELAVALESSVTINQLNENIES LKQKKQVEHQLEEAAKTNNE IHKAQMEQLETINILTLEKADL KTTLYHTKRAARHFEEESKDLA GRLQYSLQRIQELERALCAVST QQQEEDRGHCLSSPDQNFSLFTI QSSSCREAVLHRLQQTIKERA LLNAHVTVTIESLKQVQLERD EYAKHIKGERARWQERMWKM SVEARTLKKEKKRDHRIQELER SLSELKNQMAEPPSLAPPAVTS VVEQLQDEAKHLRQEVEGLEG KLQSQVENNQALSLLSKEQKQ RLQEQEEMLRQEQAQRVREQE RLCEQNERLREQQKMLQEQQE RLRKQEQLRLKQEERLRKEER LTKAGKEAVGPGGEAVEEGGE ATKAGGEARALPEPQARQAAG RATVQLRGSEQREKERTAVGA ASKGAAGEARRGEGDAVHGHL SAADL*EGGAAQAVTAADPVR GPAAAAGSLGQSGAPRSCQPPE PTARDPAKPRGSPWRRRWRTT
14307	44675	B	14393	463	3755	
14308	44676	B	14394	175	1835	
14309	44677	A	14395	102	465	RAYCWAYIRLSCLTVILIAWCS QESALSEEEEDTTRPLETVTFKD VAVDLTQEEWEQMKPAQRNL YRDVMLENYSNLVTGQCQVTK PDVSSWSKKRSPG*WRKKCL GGTVQNPEERTAV
14310	44678	A	14396	1	330	
14311	44679	A	14397	1	531	MLLNIPQIHTRQSPRAKNYLAQ NVNSVKA WCSQESALSEEEED TTRPLVRLKHLFVSCILQCSYV LLPLTPEYQLNKFLYVVTMPN FDDFKLISIMFLQETVTFKDVA VDLTQEEWEQMKPAQRNLVR DVMLENYSNLVTGQCQVTKPD VSSWSKKRSPG*WRKKCLG

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14312	44680	A	14398	1	539	MPTTTTREMTONSSETIKNKNG KKQRKQRKNSKKNRKQKDE DKTRRQNKRRHKKNDINPEEE RTAVRLKDGGAAPQAVQEHD AGICASGGAQETYILVEGKGE ASTSPGQSKGSREGGVGANETC SKKLYRDVMLENYSNLVT/VG CQVTKPDVYSSWSKKRSPG*W RKKFWEALSR
14313	44681	A	14399	322	1227	FDLKMSKCRKTPQLQASPAF SPDILADIFELFAKNFSYWKPL NNEWQLPDPEIFTCDHTEFNA FPWI*RTP*NEVKKPTGVIRTW DEWHEHTCFH**SGE/ISFPHGR KSVNAELWTQAWCKFHEILCS FPLIPQEAQNGKLNLSHLCEAP GAFIASLNHYLKSHRFPCHWSW VANTLNPYHEANDDLMMIMD DRLIANTLHWYFGPDNTGDI MTLKLFTGLQNFISSMGTVHLV TANGSFDCQ*NPAGDQRMVKG HCYFSPWNWLHLSKHTQCGNE FIFMTKKKQSLTAKSLPDTFS
14314	44682	A	14400	3	183	KRKEITNSLDAASRGTVPAAL AGVQYLEPRAGAAGRLGGAG WGRVPRPGSS/SSLVLGR*GW CPV/LRTQGRCCRPPGGCWVGA RPAWELLSLVLGR
14315	44683	A	14401	21	399	IWNSAPTASRRPWSLAPGSPRS TWCVASTPPCAPGKAREPRDRS EVPPATAPAVLQSHWPCPRSSR SGSAGNCVGPSPHAWPGHSQH LTPGPGHGGPRGP/CWHLLMQT AWPALTPPGAMPGEAEGQ
14316	44684	A	14402	59	478	RCSQPWHCPAALAGVQYLEPR AGAAGRLGGAGWGRVPRPREL LSLSLVGR*GWRPQEQDQLFPH LRRPVGTRSESTWGNRAGAAT W/RAATPSPWRT*NGTKSKQW TASGLWQKGDGWD*GSGKPPL PLSPVAGQRLVPVC
14317	44685	A	14403	1150	1319	PRRLPTACTP*RS/CSRYWMVP KSPRMTMMMWTKLARMGAQ W*PRKSNACLSRAASS
14318	44686	A	14404	34	304	LPSRGAGLGTCSPPCLSLPPTPW APVRPEPPRRAPPPAPRRVPST TQ/EARRSAASLLSPARPAHRD GTNNSRRATLRAVTLTARVRG F

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14319	44687	A	14405	1	360	SSLSYLPAGQGS GPAARHA*ASHPLHGLLCGSPSPNEHRPLIQGAQSH*PPKG*GVRAHGVGLA GRSTCSP/ECGIH*VKPAGLLSFLGPRCFYEL*QSPRRSAAASLLSP ARSRAHRE
14320	44688	B	14406	80	1166	
14321	44689	C	14407	1	543	
14322	44690	B	14408	1	930	
14323	44691	B	14409	1	1473	
14324	44692	A	14410	388	606	
14325	44693	A	14411	1	798	
14326	44694	A	14412	687	832	
14327	44695	B	14413	1	1218	
14328	44696	B	14414	1	642	
14329	44697	B	14415	1	807	
14330	44698	A	14416	554	724	
14331	44699	A	14417	216	494	
14332	44700	A	14418	1	3408	
14333	44701	A	14419	330	858	VPSLDGQRGLELDTECLRVVYLQ SLS*T*RFSTSSPEQLDTECLRV HSQTLCT*QGADWCYKP*VGL QVELPASPAP/WLAFSPWVVN GTGRHGAGGGARRGGSGCTGA HGVGGRLRHGRLQVPSAPWVE GSCLSPSPIGPPFKRAHSVLQKG SSTLMVGTCASSPKVVPFHLLS
14334	44702	B	14420	182	1513	
14335	44703	B	14421	1	1608	
14336	44704	C	14422	1	1830	
14337	44705	A	14423	167	433	LPSRGAGLGTCSPPCLSLPPTPW APVRSEPPRRAPP/GSTVPSPIN HPRAEECERMARDWQAAPPA PVRDPLGEASWAEFFGSMPL
14338	44706	B	14424	32	352	
14339	44707	B	14425	103	451	
14340	44708	A	14426	158	921	LPSRWAGLGTCSPPCLSLPPTP WAPVRSEPPRRAPSPAPRPVP/ RPPKG*GVPAHGA GLAGSSTCS PDICRVC RSEGTPEKPLYH*CVCTGSIKFIHQECYSPDMPSRLPIQ DIFAGLVTSIGTAIRYWFHYTLV AFAWLGVVPLTA WHQLLDLGS TLNPGCSHLVILKLTITSTKTLFP NKATFILVVLSDQKTLMEDPR MEDKWKEDRFSFNFSEALEITL GERHRPQTASVIPWFCSSRHVL NLGKINFEVD

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14341	44709	A	14427	242	515	IQSVHWCIIHKP*ARHRVLIGVFT IPELDIKVLHVPTRLRNPAFTH WILHRDCRCSCMPVLRHAPALL SPWVVNGTGRSRAGDSTHRGG SG
14342	44710	A	14428	759	988	TWPRKPLFPPRPLGL*WEGMLQ RSLTCPGDIFPILVISIWL LVY ANFGSWL*FLPRKWVFFIPVP NKFLIFI
14343	44711	A	14429	130	788	VLQLIKAVWTPRTQEPSWLPV NPARELQVELPASAPCARTPQ LLGGRWDWAPWSRGWRSGFE ARAAQKPMEGVGGSGMAGCR SRALPHGKAAKARRAIEHSTGG LALLGDPVHSPQPLARVLSPLP RASRAGWLLRVRGPPSPRPGT PAGRQAPHAAPVPARASPTTP/ CRAERVGSSPGQPRKGLPQCRG EAEGLLKCHQSGSPGRGEELW HSR
14344	44712	A	14430	108	1686	ANRCPLPHPGTGAGRCGLGASA GRAEEAGV*GPLHEGLGYRPA GLFLRADTGHRTPGWGGGGGG AGGRGGAAPGPGVATRRFAG RRGCARHGAAVPAAVR/CCERL VLNVAGLRFETRARTLGRFPDT LLGDPARRGRFYDDARREYFFD RHRPSFDAVLYYYQSGGLRRLRP AHVPLDVLEEVAFYGLGAAA LARLREDEGCPVPPERPLPRRAF ARQLWLLFEFPESQAARVLAV VSVLVILVSIVVFCLETLPDFRD DRDGTGLAAAAAGPFPAPLN GSSQMPGNPPRLPFNDPFFVVE TLCICWFSELLVRLVCPKAI FFKNVMNLIDFVAILPYFVALG TELARQRGVGGQAMSLAILRVI RLVRVFRIFKLSRHSKGLQLGQ TLRASMRELGLLIFFLFIGVVLF SSAVYFAEVDVDSHFTSIPESF WWAVVTMTTVGYGDMAPVT VGKIVGSLCAIAGVLTISLPVP VIVSNFSFYHRETEGEEAGMF SHVDMQPCGPLEGKANGGLVD
14345	44713	A	14431	1	427	
14346	44714	B	14432	8	323	



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14347	44715	A	14433	20	1050	FNLVYMSHVSDEGALSSESASAT AASWPPHGFQLHFVPGRPQVPI CLYLLGQKGTG*HMAPLLRQVT GSPIPPKTIPGRGIRNMKRNEKR RYKTLMADGWELHQELSLGRT SSLPPYKGPWPSPGFQKVSKG ANPVEIKRGVMLAVDAVIAEL KKQSKPVTKEEIAQVATISAN GDKEIGNIISDAMKKCGRKGIIT KISSVQSIVTALEIANAYCKPLV IIAGDIDGEALTILILNRLKVGL QVVAVKAPGFGDNRKNQLKDT VIATGGEVGEVTVIKDYAMLL KGKGNKSQIEKCVQEIIDQSDV TTSEYEKEKLSIEKLSDGVAVL KSHPWSECTKIYPLT
14348	44716	A	14434	3	764	TTATVLARSIAKEGFEEKSKGA NPVEIRRGVMLAVDAVIAELKK QSKPVTTPPEIAQVATISANGD KEIGNIISDAMKKVGRKGVITV KDGKTLNDELEIHIEGMMKFDGR YISHPFINTSKQKCGISRDAYV LLSEKKIS/SIQSIVPA/LEIAHAH RKPLVIIAEDVDGEALSTLVLN RLKVGLQVVAVKAPGFGDNR KNQLKDMAIATGGAVFGEEGL TLNLEDVQPHDLGKVGVEVIVTK DDAMLLKGKGDGK
14349	44717	A	14435	1	3288	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EAADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGRTRLRAEDVFPPI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGT SMYHGWVVDLHIIHAEDTLLPF YLGEKDDVTYA/KPTCWPGLDI IPSCALHRIETELMGKFDEGKL PTDPHMLRLAIETVAHDYDVI VIDSAPNLGIGITNVVC
14350	44718	A	14436	2	422	

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14351	44719	A	14437	529	2484	WGINIIKKNKKAAPRAFVGRLE ECQPATENQRWQDLNVISLLK SFFRKLPEPLFTDEELPLAPSCF EEENGGRGGGSPRYRLEPMDT IFVKNVKEDGPAHRAGLRTGD RLVKVNGESVIGKTYSQVIALI QNSDDTLLELSIMPKDEDILQLPA ERESGGEASEPPRVVRPEPSTRA LEPPAEDRGDEVLRQKPPPTGR KVQLTPARQMNLFGEDESPEPE ASGRGERLGRKVAPLATTEDSL ASIPFIDICVRPCAWLHALLDW MAQQRVLDMQGSIGMGVSW DRELEEKSEKGYDEPTSPSIDL QAKHVPASAVVSSAMNSAPVL GTPSSPTFTTLGRHYSDQCST SAHLNIFAGIFDISNDHLQVSTL ESNFTRIHLTHYTGGNFAWLA WDAVPFSSDLLNLGVHVLETG AGTPFLGSACSSDGIASQMNTA GLPQIRDLPGHYETLKLFLVGHV LKTIAHSEKKNMEPRNLALV FGPTLVRTSEDNMTDMVTPHA *PLTRSWETLIQALQTGSSVTKR YKKGKENCGLTRSLRQCPTLST FLPNIWQDSAPWRPGVSGPVGD LKDSTTCSSAKSKGSWAPKKEP YAREMLAISFISAVKPAQEA GDAGAGQQHRRRLGAGGAQS LGRGPQRRGHQERS
14352	44720	B	14438	1	1473	
14353	44721	A	14439	5	694	VPDKWGWCLFMSRYLETAIRT AACAAAPRYLNPGRCSAARGPS SQSPRPWPWSGHKRTASPGWG GQSAASPMPSPSRWPASVGGPE FRLSETPSRPFLLSGMK*GWQV HSWAPALFCSVMFSFSDTCCCLC K*AHSQPCSPSPSTVILLRETSSN WDWQPEDLGAPKASASPPSTT RITRLRSSELQLRRLNPSDSCHR GFCFSFRCLLTPEHVLKPTVLRI QPGCKVA
14354	44722	A	14440	303	757	MAWKVSLRGRKVAGRAPSQRL WASPPSSGQSVKSLLLPPARRL CPGPGVPARCHHRI*GLPGRG WRGEWRRDTPNWEPPQPRSPS/ G/PNCA WSDGCPGAPRRPRAL *AGAAARAAAPARI*VPWRGSAG GCSNRRLQVPAHE*TPTFIRYL

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14355	44723	A	14441	1	534	RHEDHSEPTFLISPSLLCFLLP PPLPRLTPAALLVPAVQRME PVLFLPAPGAAACRVWHPALPP PRQAAVSSSRPCYPCVARSAPA GRVRAAGVPAPPPSSPRLGRV GGRSRSPNVVFRVGAAPGPG L*ISPWTP/LNEAS*RQRCGPAS FAVYGGQEWPPQWGPGRGP
14356	44724	B	14442	157	2143	
14357	44725	A	14443	258	4089	QLITCLSRPETGGKFEVDTRP VCPPSRARAASAAAIAAAAA TLTPPTMDSFDLALLQEWDLSE LCVYEPDRNALRRKERERNQ ETQDDGTFNSSYSLFSEPKT NKGDELSNRJQNTLGNVDEMK DFLTDRTNQSHLVGVKPGVPQ TPVKNIDEHFVADSRAQNQPSI CSTTTSPAAPVPQSKRGTMG WQKAGHPSPDGGQQRATQQGL RLLGDGVGRQQ/HSGQTSVQC GGGSPDPGEATCHGQQ
14358	44726	B	14444	1	1326	
14359	44727	A	14445	453	710	SQHFGKPRQVDHLRPGV*DPQ GQHGETPSLLKIQKLTGRGGAC LW/QSQLLRRLRQENRLNLGGG GCSEPGSCHCPPAWATERDSVS
14360	44728	B	14446	32	290	
14361	44729	A	14447	244	426	
14362	44730	A	14448	69	221	QWRFCGIERGERWGKD*EIGW LPCLCGKK*IWETFILFCTKKN SSALGSC
14363	44731	A	14449	27	220	AVILTAKICSFTPEPSKTTSPPG TNNRRATLRAVTLTVKVCST P*GSAASFLKSVRPRTHQ
14364	44732	A	14450	115	732	EPETRIDPLSWNSSQLPVAALH LPGMSSVAGQAICNLCCGLDL VSPSSLPALERTGPPWNRGPK GRGRLPSL/TVSQPSLVIPPTG KSEVNADRSPRAYCSNLGRYS GPGPPSLVIPPTGKSEVNADRS GPPAYCSNHFPSPALP**RSSMRS LSLQQTSAWTCRHFTSLKSR WRFPNLNSCLCTCRPNITWKP CLGACTL
14365	44733	A	14451	528	875	EHGYFGQTLGQKGCKSGKPPG GTLKTLVTLREPGRLQSP*TS WVSERLP*YP*GDTGENCPKLS FHLRLGPS*AG*RERPPQGL YLPPQAYRLMQGSFAFWPLFGY APSPQR

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14366	44734	A	14452	2788	3414	ACFSYIAFWRIINTSTANLSKES LTSTTSRSWVINVIVICTDWL FYKWLKFNFIYFYMIFFPNQIT FHSMGSCAARASPTSTPCSTA PSPIDHPRAEESSTRRTGRQL HLQPAKICSFTPEPSKTTSPGG TNNISALP*EL*HSPRRSAAL QFRTR*YPYRYSQSGPGSHF*L PLPLPSSIHDF*LFHLQHTFQS HALLP
14367	44735	A	14453	662	1338	VLQLIKAVWTQRPLGGRWDW APWSRRWCSGRLRPHRNQWS GWEAQAWGLQVPEPCAPGRQL RPGEKSSTA PVCTSCCRTRSTA GPTGCPSTRDPTLSASPS*TST TSLATATASASMWAGSCTSIST RGSASLVHQALTWPGSGPASPR KRVTGSHFVA*AGVRWRAHRL QPQTPGLK*SSHFLPSGWNRYR HSNHPISQSFPHLSPLSQNH CHHGPFMS
14368	44736	A	14454	3	415	DFLLFSEILPASQASAILPALPA SHRCPCLLDVPLPPEVPGPARLP VAAASVWRPVQHLSSLGRWA GPT*DRTESRETNAEVEADLPP LYAHGRLEPTAGPSGASAVLST SSEYCPGPHPKMGHRRVTSCLS TCQS
14369	44737	A	14455	659	818	
14370	44738	A	14456	2	710	
14371	44739	A	14457	349	493	SS*VRWVSGR*HPQ*STLSAPLG ETSGCHQGGLHDLKIVVL
14372	44740	B	14458	1	1338	
14373	44741	A	14459	83	426	
14374	44742	A	14460	93	345	APALCLQILLDCXSVNRNRSF RPREVGIIQYKKGGAAGKGG TGNA PGFLLFKDS*KDPTPLPP PLLL*GQRDH*IQLHQE
14375	44743	A	14461	1	1302	
14376	44744	A	14462	1	1174	
14377	44745	A	14463	274	1428	
14378	44746	A	14464	411	627	HCLSHFQNTGPRGDVDFQQLA FPVLMADIRKEERSHLCSRSR TWILDKS*IQGSRLLSKEQGW GWGTSRK
14379	44747	B	14465	1	1553	
14380	44748	A	14466	226	449	SLQPDPI*CSGLRGSLLLV*PKSD
14381	44749	B	14467	1	2061	
14382	44750	B	14468	10	1099	

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14383	44751	A	14469	34	406	GGGFISLDTGSHHKSHPGGG*H ALGWVRPHLTNSPSPSQQPGNC GNPAWEC*GPHG/APSRWSCST PCRPSHPKVPAVRVAGPAGGCT PYRT/PTRRTPR*RPGPCAACDR PLHPHCGPRPGAYPR
14384	44752	A	14470	623	1671	VLRSSVSWLPTSMAMTVLAPM LRAMSAGRLLM*PPMSRCP GSHSGGR*PDS/GHAGAHVPPQ GAIFVDSHG*GGDICGHVEVRQ P/QGPQSAYPGRPDGCG* Q*TWRLGT*GPTQVPAPKSCS WPTPGPAASCGWRCAPPRTTLR *KSQWTCRPPGPRGPPPLMPL VLRCASSPWPRLAQGWCS P*APSPSGRSRCA GPRAWRKPS RRAHAAWQCGGAKRGGADSA GAGAPSTSCAYLATPRCAWGP HPPLGGAGLAA*GRAQPCSPAS APAGRG*APGPPGPQ*GCSR PVAGSARSASARRPSGRVRYGV HPPAGPATLTAGTLGCYPVRRP PGVPG
14385	44753	A	14471	32	972	QSGTFSTKNEGRFTTRDYYDGR GPRVGRCGTCVYVRYVHDRPH APPHERRNDGNTQRTGNAR PGTAMPTATTDQPKGRSTRHK ETKRGRRTARNKGQNNPRK/RP RKDKRKQGSAGEGERGAGGKE KGQPRDTEAKGDRRTDFPPPNG /P*GQSKRGANIGGWFPPLGT PNPPLPGQSAQVSGP*TPQM WMPGTGCGCGGSGSPPPWCV SP*PVAEALFHSST/PAPRHPSP SSSPKHSHQSTPPP*ISLGQGPC RPPKRRPAPDQPPVRCPEPSC AYLATPRPTMRMQSACRGSAR SRASARRPSG
14386	44754	A	14472	1	3128	
14387	44755	B	14473	239	5474	
14388	44756	A	14474	542	781	PASIIIMTGSISHITILTRVNR LNASIKRHLRTDQWQIR/KS QDLSVCIYQETHFTCKDPH LKIKGWRKIYQVN*KQKKK

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14389	44757	A	14475	724	1340	QLTLQGRRVAPR*PSRVALEQE/ CGYNALLRYEGFENDSGLDFW CNICGSDIHPVGWCAASGKPLV PPRTIQHKYTNWKAFLVKRLTG AKTLPPDFSQKVSESMQYPFKP CMRVEVVDKRHLCTRVAVVE SVIGGRLRLVYEESEDRTDDFW CHMHSPLHHIGWSRIGHRFK RSDITKKQDGHFDTPHLFAKV RSFYKNPHL
14390	44758	A	14476	1822	2226	KRLFTNRTTRITPFVAINSHHHHH HHITINTIITTTTINSHHHHHY YHHHHHHHHHHQHHTTTTNTTT TNTTTTNNNTTTTITTTTNTTT TTS TINSHHHHHNQCHHHHHH HHHH/HHHHHQYHHHHH*HYQ \HHHHHHYYHHHHHHHHHHQ/ HHHHHHQHNNQHNNHHQQQH DHHHHYHHHHQHNNHHQHYQ/H HHHHHHNQCHHHHHHHHHHHQH HHDPHHHHQH*HSHQHH
14391	44759	A	14477	232	625	EGCCCIAMVQKYSQPVRYVK YPFELIMALRKRYPRCCVTCs* TGGAQQVGFRFLDPLSLCTP* CLWRTSSSNF*RKAAGCSGSR QSHHFGILIPQTPAPKWSSPLHI TKPQTLGQRDPGPRTRKRSK
14392	44760	A	14478	1	808	MPKTTACNVHTVTWASCENAD SDSTGLRHHDSCEDPASPGRS LCLVPHPTPAVRGGRPAGGRC PAVPAEGPWRHLQQAQEGKKR LAGGLERLENPVRRALPQGA QGHRAEPTEARPHAPEIRRAG AAAEARLESQPVGASAAAA SAASARIPYLAVPAAGPPRRH CRRHRRGPGTSSGPR TALIRPAT ARARAGIVSEPTAPGATRARP WRQGSHPVAPSAP*LLRGPSIP WQIRPMCPCTISHQTCSERRPSG RWQMPSGACRRSLETSSAGAG RAQEAGGRLGETSGESG/RAGL YLKELRAIVLNQQLVVRTQRQS IDELERRLNELSA*NRSLWEHP QLPQAQPPPGFLT*PSPLPALL GTAAATAAGAEHLQDHDGQRS SARPLPAPELASFQNEQLLAQ PEPDPGGRAHTTQSPHQHPGTL GVKANKEKKGPPGCCAAPGTP LQESPAAPSARES

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14393	44761	A	14479	1	831	MIRYFGDYWTQALLTLIPGDPK HPRGPPVKVGYYGGQGYINSL ALCHNFIWRELNRFSLLDVPL VRYIDNIMLIGSIKFLGVQWCG ACRDIPIKDPADPMVLEVSAD RDAVWSIWQALIDESQQRPLGF WSKSLPSSADNYSPIERQLLAY YWALVETERSTMGHQTMLPE LPVMNWVLSDPSSHK/ANGLA GWSGTGKKHDWKIGDKIEWRR GMWMDLSEWSK/D/VKIFVSHV SAHQRVTSAAEEFNQVDRMT RSMDDTQPLYPTPIVIAQWAHE
14394	44762	B	14480	56	3476	
14395	44763	A	14481	3	591	DPADPMVLEVSEADRDA/VPIS ESQQRPLGFWSKALPSSANNYS FFKRQLLACYWVLVEIEHLTM GHQVTMRPELPINCLVSDPCSH KVGHAQQHSIIKWRWYIHDWA EGTSKLHEEVAQIPMVSTPSLP QPAPMASWEVPYDQLTEEEKT RAWFTDGSARHAGATQKWTA VALQPLSGTSLQDSSEKSSQW
14396	44764	A	14482	1	1275	MEKNDIDQSRRRKVVEMNENV QLVRYGEQASDLKATKFKSPS EVKHIRFIQAFIGSKLLMRPW TTVTQILSLKSAKIALSESLIPC RKRAEFVEKQTQAFIMQVSDL QQKVHAQPSQVSTVKVKALIG KEWDPATWNGDVWEGPDEAG DTEFVNSDEAFLPEATAFPSPEV GNDQTVWGLDGTSELMLIPG DPKYRGRPPVKVGAYGGQVIN RGLAQIQLSMDPVGHRTRPVVS SPLPECIIGTDILSSRNPHIGSLT DITLVHYIDDIMLIGSSEQEVITL LDLLVQAVQAALPVGPYDPA DPMELKVSVADRDAVWSLWQ APIVTMRPERPIMNWVLSDPSS HKVGCAQQHSIIKWKWYIRDW ARSGPEGTNHSRRVCS/LPQVQ APSA*ATARRGGQAASGCCLF WSTCFNSFDV
14397	44765	A	14483	604	1760	NSWCRWFNFRY*YPTFYWES* NT*IPLEWFG*NHDASCP*TL SKSFSFETRTGSPCSSSLQTAYC GTLWIVQGV
14398	44766	A	14484	2710	3060	
14399	44767	A	14485	3	227	
14400	44768	A	14486	3	266	
14401	44769	A	14487	2	564	

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14402	44770	A	14488	2	503	FFFFLPIGFWRQHPIRLSVLLQHI Y*VT*NAASFEWGPEQEAL*Q VQAVVQVALPLGPYPADPML LEVSVADKDAGCTRLAQAPIGE SQWRSLGFRSKALRSSAENYSS FERQLLACYWALVETECLTLG HQVTI*PELPIMNWVLSDPSSHK VGHEQQHSIIKWK
14403	44771	A	14489	2	469	
14404	44772	A	14490	1	633	MTVDYRKFNQVVTMAA/AVP DAVSLLEQINTFPGTWYAAIDL ANAFSIPVHEAHQKQFAFLPQ GYINFALCHNLIRRELDFFLLL QDITLVHYIDDILLIGSSEQEVV NTDLLIHKRSKEAHTAASRI VSCLPEQKSHEQTL.PWEQVPSS GDIKEYFPNAFVLLTTASLQGG DNTSQLTLTWKAPEDIKMSKT DADADEEIEALRG
14405	44773	A	14491	1	518	MTVDYCKLNQVVIPIAAVSD VVSLLLEQINTSPGTWYAAIDLA NAFFSIPVHKAQQKQFAFSWQG QQVTFTVLPPQWYINSPALCHNL IRRLDLCFSLPLDITLVHYIDD MLIGSTIKWVVHSS/DSIIKWKW YVHDWARAGPEGTTNGLAG*S GTCKKH EWKTGDKGIRGRG
14406	44774	C	14492	33	932	
14407	44775	B	14493	27	2457	



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14408	44776	A	14494	332	2158	RGYVFCSWKKTDGSRWMTVD YCKLNQVVIPIAAAVSDVVSLL EQINTSPGTWYAAIDLANAFFSI PVHKAQQKQFAFSWQQQYTF TVLPQWYINSPALCHNLIRDDL DCFSLPLDITLVHYIDDIMLIGP RQLLACY/WALVETEHLTISHQ VTMRPELPIMNWVFLFDPSSHKV GCAQQHSIIKWKWYVHDWAR AGPEGTTTPVISQWPHEQCCHG GRDGGYAWAQCRLLPLTKAD LNTATAKRPICQQRPITLSPQY GTIPQGDQPATWWVVDYMG LPSWKGQRVLTGIDTYSYG AYPACNASAKTAICGLTECLIH HHDIPIHSIADQGTFFMAKEVR QWAHDHGIHWSYHVSHHPEA AGLIEWWNGLLKSQLCQLGD NTWQGWGKVLQKVYALNQH PIYGTVSPIAKIHRSRNOGLEVA PLTITPRDPLAKFLPPFATLQS AGLEVLVPEEGTLPFGDTMPL NWKRLRPPRHFGLLPLNQQA KKGVTVLAVGTDLDYKDEITL LLHNGGKEEYAWNTGDPLGLL LILPCPMIKVNGKLQQLKPEAL VPKGVVFPFGDTTMLSLSWKL RLPSGHVGLLMPLSQVQKGV
14409	44777	A	14495	1	3187	MAEGKEEQVLSYTDGSRQREN EEDAKAETPKTIRSHETYSLPR EWYEGNRPHDSITSQWVPPTTR GNYGSTIQDEIWDGSHSGYVRP VPVPRSLNSDISYFGVGKQAV FFVQGSARMISKPADSQDVHEL VLSKEDFEKKEKNKEIYSGYI RNRKDDYDNHTGIDLVGTHIATI KGSNEEDTDPLFIGKVRTLEFP FVNGSAEIMLMPNSQQHKTE KGRANLGVFSVFAPRGEHTLQ VKAIYNKSIIEGP
14410	44778	A	14496	266	467	
14411	44779	B	14497	152	1245	

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14412	44780	A	14498	1	1445	MLRAAAGGQGLAAAGMGLCA RPAGGSQPLPRERMKGNRACLP LPPAVALTKGREKPDAGHQGR STQMMRESERGPCTHWTEERP GRQLKILLQKQMRQNTLMAFQ VSWDGRNKEIGRTFPHTAPHT QQLIFAMKIKRTGTVPEPWGLF ETGQRIRPIQAAGL*LSSSSTTC VALAPLLTMHVKSALLSAP/Q MGALSTITSITTRRQIPAESHF PAARFHLAPHSPITLPPCCGP SESAVTLCFAKGKTAQDAAV PTTSLTAAGHLAPRS*SSWSRM PVKVRRAADSLPETSAAHALPLT H*SWLPASWGPASRALPGSEW VLKPVWQ/AITGPVSQITSSPGIP KPIGPLQA*GSAHPQALGFSVL QIPLSNSPTSPMTPLPRPKISNS SLPSQ/PPQALFPNRWNTSSSPV HVITSAAQ/PRTPREWPAVSFYR TTATTASLPHLWAPPQEN*QTS PAQNGSTLPCMSQA TFHFPS
14413	44781	A	14499	44	455	HLNRNR/PSQITPHIYNHLIFDK /PLFNIWWENWLAICRKLKLD PFLTPTKINSRWIKD*NIRPKSI KNLEENLGNTIQHLG/TGKDFM TKTPKAMATKAKIDIWLIKLL SFCTAKEITIRVNRLPT*WEKIF AIYP
14414	44782	A	14500	1	346	
14415	44783	A	14501	1926	2448	DFIAVITTRKQLTKYNAHHSK QAITKHFSPKISDLILCLKKKIM NRHFSKEDIYAACKHMKKCS SLAIREMQIKTTMRYHLTPVRM AIHKSGNNRCRRGCCGIGTLLH CWWDCKLVPCLCKSMWRFLR DL/DPAIPLLGIVPKDYKSCCYK DTCTRMFIAALFTIAKTWNQP

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, /-possible nucleotide insertion)
14416	44784	A	14502	1	2142	MHILDAEKAFDKIQPFMLKTL NKLGDGTYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGCP LSPLLFNIVLEVLQAIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLISNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFIATIKRIKYLGIQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWIGRINIMKMAFPR WELNNENTWTQEGEHHTLGPV VGWGRGGIALVDIPNVNDKL MVLEVLARAIQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLISNFSKVSQYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRIKYLGIQLTRDVKDLF KENYKPLLKEIREDTNKWKNI CSRIGRINIMKMAILPKVIYRFN DPIKLPMTFFTELEKTTLKEIW NQKRAIAKTILSKKNIAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTEASEVTSIYHN LIFYKPKDNKKWGNDSLKNKW CWENWLAICRKLKLDPFLTPYT KIHSRWIKDLNVRPKTIKLEEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVILKLSFCTA KETTIRVSRQPTWEKIFAIYPS DKGLISRIYKELQIYRKKTNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCCSSSLVIREMQIKTMM
14417	44785	A	14503	209	3816	QGRPTFRFKYREHHKDTFREE QLQDT*SSDSPKLK*RKCC*GQ PERKVKLPTKGSQSD*KRISRQ/ KTLQARRQSWFFEKINKIDRPQ ARLIKKREKNQIDTIKNDKGD ITTDPTIEQITIREYYKHLVANK LENLEEMDKFLDTYTLPLNLQGE EVESVNRPTGSEIEAITNSLPTK KSPGPDGFTAIFYQRYKEELVP FLKLFLQPIEGILPNSFYEASII LIPKPGRDTTKGNFRPISLMNI DAKIL

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14418	44786	A	14504	1	2877	MENDFDELREEGFRQSNYSRLR EDIQTKGKEVENFEKNLEECITR ITNTEKCLKELMELKTKAQELR EEWRSLRSRCDQLEERVSAAME DEMNMKGEGKFREKRIKRNE QSLQEIWYVVRPNLCLIGVPE RDGQNGTKLENTLQDVIQENFP NLARQANVQIQEIQRTPRQYSS RRATPRHIIVRFTKVEMKEKML RAAREKEIQTITSEYYKHLVTN KLENLEEMDKFLDTYTLPTLNQ EEVESLNRNPITGAE
14419	44787	A	14505	1	2347	MELKTKARELHDECTSLSSRF QLEERVSVMEDEMNMNLPK KSPGPDGFTAIFYQRYKEELVP FLCLKFSIEKEGILPNSFYEPSII LIAKPGRDTTKENFRPISLMNI NAKILNKMLANQIQQHKKLIH HDQVGFIPGMQGWFNIRKSINV IQHINRTKDKNHMIISSDAEKAF DKIQHFMLKLTNLKLVLEVL RAIRQEKEIKGLQKEEVKVS FADDMIVYLENPTVSAQNLLK IGNFSKVSQYKINVQKSQAFLY TNNRQTERQIMSELPFTIASKRI KYLGIQLTRDVKDLFKENNKPL LKEVKEDTNEWKNIPCSWVGRI NIVKMAILPKVIYRFNAIPIKLP MTFFTELEKTTLKFIWNQKRAC IAKSIFSQKNKAGGITLPDFKLY YKATVTKTAWYWYQNRDIAQ WNRTEPSEIMLHIYNYLIFDKPE KNKQWGDLSLFNKWCWENWL AICRKVKLDPFLTPYTKMNSR WIKDLNVRPKTIKLEENLGITI QDIGVGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTIRV NRQPTTWEIFATYSSDKGLISR IYNELKQIYKKKTNNPIKKWAK DVNRHFSKEDIYAAAKHMKKC SSSLAIREMQIKTTMRVHLTPV RMAIHKSGNNRKIQ/GGIWCD RIL*R*TTCTRVAKELQSL*RR/W KRLQRTLSIPVLDAV*PPMF*AS
14420	44788	B	14506	1	2265	
14421	44789	A	14507	1	2832	
14422	44790	A	14508	1	2109	
14423	44791	A	14509	1	2757	
14424	44792	A	14510	1	2304	

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14425	44793	A	14511	I	2685	MGDFNTPLSTLDRSTRQKVNK DTQELNSAPHQADLIDYRTLH PKSTEYTFPSAPHHTYSKTDHIL GSKALLSECKRTEIITNYLSDDS AIKLELRKLNLTQNRSTTWKLN NLLDDYVWHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFVALNAHKRQGRSKIDT LTSQLKELEKQEQTHSKASRRQ EITKIRAELEIETQKTQVKINES RSWFFERINKIDRQLARLIKKKR EKNLIDAIKNDKGDITDPTEIQ TTIREYYKHLNANKLENLEEM DKFLDITYLPRLNQEEVESLNR PITGSEIVAIINSLTTKSPGPDG FTAIFYQRAIRQEKEIKGIQLGK EEVKLSLFADDMIVYLENPIVS AQKLISNFSKVSQYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDTNKWNIPCSW VGRINIVKMAILPKVIYRFNAIPI KLPMFTFTELKKTTLNFIWNQK IRAHIAKS/VLSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDTDQWNRTEPSEIMPRIYNYL IFDKPEKNKQWGKDSLNFNKC WKNWLAICRKLKLDPFLTPYT KINSRWIKDLNIRPKTIKLEEN LGITIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSKFSTAKE TTNRVNRQPTKWEKIFATYSSD
14426	44794	B	14512	I	2337	

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14427	44795	A	14513	1	1544	HINRAKDKNHMIISIDAFAED KIQQHFMLKTLNKLGDGTYFR KSINVIQHINRAKDKNHMIISID AEKAFDKIQQHFMLKTLNKLGI DGTYFRKSIN/DNPAYKQSQRQ KPLIISIDAFAEDKIQQPFMLK TLNKLONHIVYLENPIVSAPNLL KLISNFSKVSQYKINVKQSQA LYTNNSQTESQIMSELPFTIASK RIKYLGIQLTRDVKDLFKENYK PLLKEIKEDTKKWKNIPIKSWG RINIVKMAILRKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA PVAKAILSQKNKAGGITLPDFK LYYKATVTKTAWYWYQNRDI GQWNRTEPSEITPHVYNYLIFD KPEKTKQWKGDSL FNKWCWE NWLAIKRLKLDPLTPYTKIN SRWIKDLNVRPKTIKLEENLGI TIQDIGMGKDFMSKTPKAMAT KDKIDKWDLIKLSFCTAKETT IRVNRQPTWEKTFATYSSDKG LISRIYNELKLIYKKTNPIK WAKDMNRHFSKEDIYAAKKH MKKCSSLAIREMQIKTTVRYH LTPVRMAIHKSGNN
14428	44796	B	14514	110	2153	
14429	44797	A	14515	1	3210	MVKGSIQEEELTILNIYAPNTG ALRFIKQVLRDLQRDLDSHTIIM GDFHTPLSTLDRSTQKVNKDI QELNSALHQEDLIDYRTLHPKS TEYTFSSAPHHTYSKIDHIVGSK ALLSKCKRTEITNCLSDHSAIK LELRINKLTQNRSTTWKLNLL LNDYWVHNEMKAEIKMFFETN ENKDDTTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDLTSL KELEKQEQTHSKASRRQEITKIR AELKEIETQ
14430	44798	A	14516	3	2820	ENKDDTTYQNLWDFAKAVCRG KFIALNAHKRKQERSKIDLTSL QLKELEKQEQTHSKASRRQEIT KIRAELEIETQKSLQKINESRS WFFERINNDRPLARLIKKKREK NQIDTIKNDKGDITDPTIEQTTI REYYKHLIYANKLKNLEEMDKF LDYTYLPRLNQEEVESLNRPIG SEIVTIINSLPTKSPGPDGFTAE FYQRYKEELVPFLKLFQSIEKE GILPNSFYEASILPKFGRDITK KENFR

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14431	44799	A	14517	687	2274	LRDCKRINQHPVKTDQSAFCM/APIMQDVVLEVLARAIQKEIKIGIQLGKEEVKLSLFADDMIVYLENPIVSAQNLLKLSINFSKVSQYKINAQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLTRDVKDLDFKENYKPLLKEITEDT NKWKNIPCSWVGRIINIVKMAIL PKVIYRFNAIPIKLPMFTFFTELE KTTLKFIVNQKRARMASILSQ KNAAGGITLPDFKLYYKATVT KTAWYWYQNRDQVQWNRTEP SEITPHIYNILIFDKPDKNKQW GKDSL FNK GWENWLAICRKL KLDPFLTPYTRINSRWIKDLNV RPKTIKLEENLDITQDIGMGK DFMKSTPKAMATAKIDKWDL IKLKSFCIAKETTIRVNRQPTKW EKIFATYSPDKGLISRIYNELKQI YKKKTNNPIKKWAKDMNRHFS KEDIYAAKKHMKRCSSSLAIRE IQIKTTMRYYHLTPVRMAIHKSG NN/R/CF*WQKPGPSG*ALRSWK EDIAGTSYVGMNQCMQRKNKTLI
14432	44800	B	14518	1	3192	
14433	44801	A	14519	1	2814	
14434	44802	A	14520	1	3144	MGDFNTPLSTLDRSSQKVNK DTQELNSTLHHADLIDYRTLHP KSTEYTFFSAPHHTYSKIDHVV GSKALLSKCKRTEIITNCLSDHS AIKPELRICKLTQNRSTTWKLN NLLNDYVWHNKMKAIEIKMFF ETNENKDTTYQNLWDTFKAVS RGFIALNAHKKQKQCKIDTL ASQLKEVEKQEQTHSKASRRQ EITKIRAELEIETQKTLQKINES RSWFLEIRINKIDRPLARLIKKKR EKNQIDVIKNDK

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14435	44803	A	14521	1	2616	TTYQNLWDAFKA VCRGKFIAL NVHRRKQERSKIDTLTSQLKEL EKQEQTTHSKASRRQEITKIRAEI KEIETQKTLQKINESRSWFFERI NKIDRPLARLIKKKREKNQIDAI KNDKGDITNPTIEIQTITIREYYK HLYANKLENLEEMHKFLDTYT LPRLNQEEVESLNRPIGAEIIVA IINSIPTKKSPGPDGFTGEFYQR YKEELVPFL/KLQFQIEKEGIM NIDAKILNKILANRIQQHIKKLI HHIQVGFIPGRQGFENICKSIN VIQHINRAKDKNHHISIDA EKA FDKIQLFMLKTLNKLIGDGT FKIIRAIYDKPTANILNGKKLEA FPLKTGTGQCPLSPLFNIVLE VLARAIQEKEIKGIQLGKEEV KLSLFADDMIVYLENPIVSAQN LLKLSNFSKVSQYKINVQKSO AFLYTNNRQTESQIMSELPFTIA SKRIKYLGIQLTRDVKDLFKEN YKPLLKEIKEDANKWKNI PCSW VGRINIVKMAILPKVIYRFNAIPI KLPMTFFTELEKTTLKFIVNQK RAHITKAILSQKNKARGITLPDF KLYYKATVTKTA WYWYQNRD IDQWNRTPQSEITPHIYNYLIFD KPDKNQWKGKSLFNKWCWE NWLAI CRKLKLDPLTPYTKIN SRWIKDLNVRPKTTKLEENLG ITIQDIGMGMDFM SKTPKAMAT KDKIDKWDLIKLSFCTAKETT



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14436	44804	A	14522	782	3024	SKTVPTGNSLEPTQNCWLQQW LPQDIEIEKQEQT/HSKASRRQEI TKIGAELEEIEETQKTLQKINESR SWFFEKINKSDRPLARLIKKKR EKNQIDAINKNDKGDITTDPTIEQ TTIREYCKHLYANKLENLEEMN KFLDTYTLPRLNQEEVESLNRPI TGSEIAIINSLPTKKSPGPDGFT AEFYQRYKEELHINRRTKDKNH MIISIDAEKAFDKIQRFMLKTL NKLVLVLEVLARAIQKEIKGVQ LGKEEVKLSLFADDMIVYLENP IVSAQNLLNLISNFSKVSQYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKRIKYLGIQLTRDVKD LFKENYKPLLNERKEDTNKWK NIPCSWVERINIVKMAILPKVIY RFNAIPIKLPMTFFTELEKTTLK FIWNQKRARIKASILSQKNKAG GITLPDFKLYYKATVTKTAWYS YQNRDIDQWRNTEPSEILPRIYN YLIFDKPEKNKQWGKDSLFNK WCWENWLAICRKLKLDPFLKP YTKIKSGWKDLNVRPKTIKTL EENLGITIQDIGMGKDFMSKTP KAMATKAKIDKWDLIKLSKFC TAKETTIRVNRQPTEREKIFATY SSDKGLISRIYKELQIYKKRTN NLIKKVWKDMNRHFSKEDVYA AKKHKMKCCSSLAIREMQIKTT MRYHLTPVRMAIHKSGNNRITI VLLPGSLIVRSFHVTLNAILLHP
14437	44805	A	14523	1	1701	
14438	44806	A	14524	1	4434	
14439	44807	A	14525	1	2913	MGGPAALCIAVVPGLDVLVALC LEEGLSGSIATWACSPWRISQ THLTFRSSLAVAAIPEGLPIVVM VTLVLGVLRLMAKKRIVVKKLP VETLGCCSVLCSDKTGLTANE MTVTQLVTSGLRAEVSGVGY DGQGTVCLLPSKEVKEFSNVS VGKLV EAGCVANNAVIRKNAV MGQPTEGALMALAKDQEDY FMKGAL EEVIRYCTMYNNGGIP LPLTPQQRGAGPDTALPSAAS AFARMSAAERNDAFQG

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14440	44808	A	14526	1	3009	MGDFNTPLSTLDRSMRQKVKK DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDGS AIKLELRKIKNLTONRSTTWKLN NLLNDYVWPNEMKAEIKMFF ETNENKDDTTYQNLWDAFKAVC RGKFIALNAHKRQERSKIDTL TSQKLEKQEQTHSKASRRQE ITKIRAEKKEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
14441	44809	A	14527	1	4800	MGDFNTPLSTLDRSTROKVNK DTQELNSALHQADLIDYRTLH PKSTEYTFFSAPHHTYSKIDHIL GSKALLSKCKRAEITNYLSDHS AIKLELRKIKNLQSRSTTWKLN NLLNDYVWNEMKAEIKMFF ETKENKDDTTYQNLWDAFKAVC RGKFIALNAHKRQERSKIDTL TSQKLEKQEQTHSKASRRQE ITKIRAEKKEIETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNDK
14442	44810	B	14528	1	2901	
14443	44811	A	14529	569	3443	RKH*TWKRTSSTSHHKNNPN* LEKQEQTHSKASRRQEITKIRAE LKEIETQKTVQKINESRSWFFER SNKIYRPLSLIKKKREKNQIDT IKNDKGDITTDPTETIQTIREYY KHLANKLENLEEMDKFLDTY TLPRNLQEEIESLNRPIGTETIVT IINSLPTKKSPGPDGTAEFYQR YKEELVPFLKLFQSEKEGILP NSFYEASILIAPGRDITTKEN FRPISLMNIDAKILNKILAKRIQ
14444	44812	A	14530	3591	8157	TGTSQKKTfMQPKKHMKKCST ITGHQSNANQNHNIPSHTKLE WRSCLKRSGNNRDVGNVVEAM YGDLPPIIMLIGHSMGGAIAVH TASSNLVPSLLGLCMIDVVEGT AMDALNSMQNFLRGRPKTFKS LENAIEWRNKIDLSWADSIKNV AAASLACISGALPASAVTTSPD NKRMRNVLYKIERLLAESPNH VVAEAVIQRPNIPLQTRDTYE GLCQTLGSQPTLYQIPSLYCSYE TNSNAYLLQPIRKEVI

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14445	44813	A	14531	172	328	AVKTEPEMSQATKLSVVHEK KSQEGKPKHEPEKSLPKQASD TGSNDAHNIKAVSR*SHRQPSC LWFMKKNPKKESRKNTQSQKA YPSRHQIQEVTMLTI
14446	44814	A	14532	3	660	TSPDCWEGRSVDWPRPGPALS LHNCKLDLGIEGGTLPPTPSF* PTGTRAV/PTRRRSRQETQLNSE RTVSPGSR**EKRTSRAW/RSP QGPGPGHAGQVAGGTGPRIGS TRGD/TLQKCGKIQSVPLNCELI PI*/PSILKPKVLPSCPGIGASS) CPSD*VFFCTS*PWPYLLSYPLS MNFYRYHDHILKLLVQYTLVYL LLQFLQVLLKYLLSHPKQHS
14447	44815	A	14533	1	1086	MVDNDVPWPLVVAQEKQPD LCLSSKGYRPLALVQLDFHQVS VTSKIFILSGALRSLTGAATAD WTCRVLVIYPHDIMADSECNLS LVPSTRKIMKHLASEKIKTQ NFNYNVDECVSLLYHHKANKL EAAEARQCELLRVASVSRHC W/RDPAHPHSCWPRC*APHCLG PARAPNARPAKPATTWNLRSSR APCAAPVPTQSWAGAPSGTAG AEPS*ECRPPENQARTAGSGVH AEACAPATCAPCGPGPCSGLP SSGRALFLL/CATLAIPC*V*LC FLATPPPCR*HVTAPSAGKCIW* PDA*VTK/PRDLCPVQVARDN GPRQVAQKKESSVVSWFGTFI SRVGDSPPPRAATL
14448	44816	A	14534	23	506	PDIDNIFEFGAKSKPYLTVDQ MMDFINLKQRPRLNEILYPPL KQEQQVQLIEKYEPNNSLARKG QISVDGFMRYLSGEEGVVSPE KLDLNEDMSHPLSHYFINSSH TYLTGMNVLVLCYFSQSHQISP TSTFCSEAEV/WFSSISCVEVPLR TLGFHH

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14449	44817	A	14535	341	1248	KNAFTSFLTSFPFGQISVDGFMR YLSGEENGVSPEKLDLNEDM SQPLCFMGIWGLFCWCFIAGQL AGNSSVEMYRQVLLSGCRCVE LDCWKGRТАЕЕЕРVKILAY* IY MCSHF*EVIEAIAECAFKTSLSP TFLLLFSLSPKQQAQMAEYC RLIGSSIFKEYAFHFY* LESGVPL PSPMDLMYKILVKNKKSHKS SESGGKKKLSEQASNTYC* NGD MMICY* NLTEADTESD/DADS GNV/CLFYSYFQGTAGSEAMAT EEMSNLVNFLTFFPFFVLLLNSE RNKSFEMSSFVETKGL
14450	44818	A	14536	574	647	C*PGNM/HISGQHLVAGEKEAE SEDEEEEDMKLLGTPEGGSKFT QKKVKLADEDDDD/DDDADDD DDDDDDDDFDEETEEKAPV
14451	44819	A	14537	3	630	PGATHASAPPGVLRKLCGSGPV HIIGQHLVAVEEDAQSQDEEEE DVKLLSISGKRSAPGGGSKVPQ KKVKLADEDDDDDDDEEDDD EDDDDDDDFDEEAEQQAQPVKK SNRDTPAKNAQKSNQNGKDSK PSSTPRSKGGQESFKKQKTPKTP KGPSSVEDIAKMQASI/EKKG GSLPKVEAKFINVVKNC SRMT DQEAHQDLWRWRRSL
14452	44820	A	14538	1	1971	
14453	44821	A	14539	316	1169	RVGGQSHGTQRISLCRHSVCSP LARQSPSNMK* VRTIEIQMAVS CYLKRWQYVDSGGLPKQGLR LPQTAEEELAA <sup>NT</sup> VHRESHCAD IVSAVPCQAEPOQYEVQFGR LNFLIDSDSPHSHEVMPLLYPLF VCLHL <sup>SL</sup> VQNSPKSTVESFYSR FHGMFLQKASQKGVIEQLQTT QTIQDILSNFKLRAFLDNNYVV HLQEDSYNLIHLYLQSDSYTAL CKMFILLIHLDVQPAKTTD* QL YASGSSSRSEN <sup>NY</sup> LEAPDMPSPI LQNDAALEVLQERIKQVKDGC PSLTTVCFYNT* QLLNTAEISPD SKLLAAGFDNSCIKLWSLQSRK LKSESCQVDMRSIHLACDILEE
14454	44822	A	14540	1	297	

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14455	44823	A	14541	2	1089	APLLGECRSGRGLASSRSRRRT TMTQSVVVQGKLRAGRDLVA AESSGHVSLMSYSLSFLSSGRS RLALREHAAVNQVPARRREPPR LSARSSSPSYFHLQSE*L*KKIH* LYFIFLSQAVLIDMEEGVVNEIL L*IRTNQIKK*MQGIFKIHILIFR AVGHKVFGLYQDQILEKFQIL HNYILNHLCL*FLKTL*SSGTGSG LGTFLKLVLEDEFPEVYRFVTSI YPSGEDDVITSPLVEYHLHPLF LIA SLPMFFPQKSLFDIISKIDLM VNSGKV/GGTTVKPKSL\VTSSS GALKIELHLKCIILKLIKFSF*C* LFSSARFEGSLNMDLNEISMNL VPFPSS*EIVSLKYVLYFN
14456	44824	A	14542	129	461	TCISGWHLFRASVTCPGIQTSPH NWHISDNSSLPNNIFVCWNLL GMTRNYIIFIEQPLKMNWLKIA TSKIRGKAFSDGISGNPQCNT FHVVEKRTGQLLPGRYYSKPF
14457	44825	A	14543	1	522	
14458	44826	A	14544	1	927	MEDLLTEARSPYWGRARAKIQ DSCWSVTSDPNAGSVLDILAPLL LPSPSSYLPNFTCTSVVVTSHLH EAFDLDFRGTGGSNCKTSRQV QLNNQKRKKKKSKSLPFHMSL QIQNYKTQEEPFAKPSQQHQH SEHESIQTCLVFRSSMTYMHIL KLIREKGSIMLSSTQGECPNSTC RWPAEEHPLGSTHREDQEHVIR VPPEKVDLGETIHGVQVICIAS TEKGKPSYYHSFGMTRNYIIFIE QPLKMNWLKIA TSKIRGKAFSD GISWEPQCNTFRHVVEKRTGQT T*INPDKISIQKHDIHAYIEAD KRKRKHNAVIHTG*M/YQI/GTC RWPAEEHPLGSTHREDQEHVIR VPPEKVDLGETIHGVQVICIAS TEKGKPSYYHSFGMTRNYIIFIE QPLKMNWLKIA TSKIRGKAFSD GISWEPQCNTFRHVVEKRTGQT LNVKTMRMKTFMMIYYHLMN

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14459	44827	A	14545	1	882	MAEILTQVPDDMLKKKTPRVK SVWRSQRGSCPTPLIGTTTLD TSHMSIRNMDRSHINVHTVRKP SADLPYFRTHEWAHTGGKPYD CEECGKSFISRSSIRRHIMHSG DGPYKCNFCGKALMCLSLYLIH KRTHTGEKPYECKQCGKAFSH SGSLRIHERTHTGEKPYECSECG KAFHSSTCLHAHKITHTGEKPY ECKQCGKAFVSFNSVRYHERT HTGEKPYECKQCGKAFRSASH LRTHGRTHTGEKPYECKQCGK AF*PRFQMT*RRKLPE*NQCG EVSVGHVHSLNRHHRADTGHKP YEQYEGQKPYKCTYCKKAFS YLPYFRTHEWAHTGGKPYDCE ECGKSFISRSSIRRHIMHSGDG PYKCNFCGKALMCLSLYLIHHR THTGEKPYECKQCGKAFSHSGS LRIHERTHTGEKPYECSECGKA FHSSTCLHAHKITHTGEKPYEC KQCGKAFVSFNSVRYHERTHT GEKPYECKQCGKAFRSASHLRT HGRTHTGEKPYECKQCGKAFG CASSVKIHERTHTGEKPCSSNTS
14460	44828	A	14546	3	395	SAEVGAAETTLTELRRTVQSL DLDSMRNLKASLENSLIGILLHL ESELAQTRAEGQRQAQYEAL LNKVKLEAEIATYRRLLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH
14461	44829	A	14547	2	1044	AKTSSQMPSPQEGMCGKACTP ALSQADSLCPLLRASEVEGYS LPACAEPYVQSECLSHLSVWSL QHALLSLASMSFTTCSAFTNYW SPGSVQVPSYGTQPVSHAASVY AGLGGSGSRISVSHFTNGVGLA GMGGIQNEKETMQSLRDRLAS YLDVRVRLGETENWKLESQIEH LNVTRL*LETEIEALKKELLFM KKNNEEFAKGLQAQIASSGLTV EVDAPKS/QDLAKNMADSRQA YDKLARKNREELDKYWSQIE ESTRVVTTQSAKVGAAMTLT ELRHRVQSLEIDLSDTRNLKAS LENSLREVEARYALQMEPSLLF SKIIFGRVWEISYLVHFEGKQV

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
14462	44830	A	14548	1	1212	GPPTGIAGGLAGMGGIQNEKET MQSLNDRLASYLDRVRSLETE NRRLESKIREHLEKKGPQVRD WSHYFKIIEDLRAQIFANTVDN ARIVLQIDNARLAADDFRVKYE TELAMRQSVENDIHGLRKYDD TNITRLQLETEIEALK*ELLFMK KTPEEEVKGLQAQIASSGLTVE VDAPKSDI AKIMADIRVAQY DELARKINRELDKYWSQQIEE STTVTTQSAEVGAAETITLTEL RRTVQVFGDSTWTSMRNLKA NLENSLGEVEARYALQMEQLA NGILLHLESQLGQTPRTEAQRQ AQEYEAALLNIKVKLEAEICHL TRPPSWKIGEDFNLGDSLDER NSMQTIQKTTTTRISWIGQSGV LRPIDTKVLEALSQQEASGTL GKQEANKKFQSFK
14463	44831	A	14549	1	2382	
14464	44832	A	14550	2	173	
14465	44833	C	14551	1	732	
14466	44834	A	14552	455	682	AWKRAVALGKSRPMGAVAFK RRMQPVAGPRAMQEKFPSSSS SLSIIPAF*YRLALSLAEPSSRW RARTGALMQL
14467	44835	A	14553	158	368	
14468	44836	A	14554	87	251	
14469	44837	A	14555	1	1026	
14470	44838	A	14556	201	578	
14471	44839	A	14557	336	767	AFVRAGSRFGGTPGARPDPA TRAPNPVGQSRHLRAASSRGRL FLRRTRDRKFPRRPLSRLLG A1/GCRWNQPRAAEKSFSAGAV LDFSPGLSCLPAVQSGSPAARH A*ASHPLHGLCCPSIPDEHHPL LHGAQSHRPPKG
14472	44840	A	14558	6	535	ARHRVLIGVFTIPELDILSTSPD SGAQLASPSDPAAGLQVELPAS PARCARIPQLGGRWDWAQTQ EPSWLHLVEPAPGLQVELPAS TPCACIPQLGDRWDWAPWSR GWCSLGRLGPHRSPWGWEEAE AWRAAGPEPCPTGRQLRLGEK SSAAPVGWHCWGTQYTLRSH WPGC
14473	44841	A	14559	375	638	
14474	44842	A	14560	92	514	

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14475	44843	A	14561	54	380	SCHHYCRIHRRCARFLAGP*LPS RGARLGTCSPPCVSLPPAPWAP VRPEPPRRAPPPAPQRPVPSITTQ GLRSAGARRGTGRQLHLQLRG SAASFLKSVRPRTHTQFRTHT
14476	44844	A	14562	531	773	
14477	44845	B	14563	92	1774	
14478	44846	A	14564	1	390	LHDLQLSKPLSDDTALTDGG/Q PLPARWWAQPGRLQRCARFLA GP*LPSR/WGRARDLQAMPEP PTPSVGSCAAQASPTSAAPCSM APSPIDHPRAWPVLCSCMLLS LFVASISSCSQHQPMPQVGTMC L
14479	44847	A	14565	165	545	SLHSKLCWWLQQLWVYDTCP CSVQDCRQRWASAGNQS*RLL VDPAPGLQVELPANPVPCARIP QPLGGRWD*APWSRGWCSSGR LGLHRSFWSGWEAQWRAAG PEPRPAGRQLGAMSKVETGT
14480	44848	A	14566	1	309	SACLAGRPIRGPRDLQAM PEPTPTSMGSCAARASPTSATPC STAPSPIHHSRAEECGHTALG/H GRQLHLQPRNLPQTINWRTTYS SFPATLNRLDGGG
14481	44849	B	14567	1	843	
14482	44850	A	14568	143	535	
14483	44851	A	14569	375	571	
14484	44852	B	14570	289	972	
14485	44853	A	14571	27	363	
14486	44854	A	14572	2	490	
14487	44855	A	14573	574	961	RLTLPDLRGSPPDTHQAQQITW ALI.PQGFADSPHYFSQAQISSSS ITYLGIILHENTRALPADHV*LIS QTPISSTKQQLLSFLGMVRYFC LWIPSFTILTKPLY*FTKANLAD PTDPKSFPHSSFRSL
14488	44856	B	14574	182	1513	
14489	44857	A	14575	894	1305	QTQEPSWLHLVDPALGLQVELP ASPVPCARIPQLGG*WDWAP WSRGWCSSGRLGPHRSPWSGW EAQAWRAAGPEPCPAGRQLRP GQHPL/RHMNKSQALSLLIAQP LGINLLSWWPPKYNRVPVLI SGLLIPATF
14490	44858	A	14576	531	801	



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14491	44859	A	14577	441	783	RAPPPAPWRPVSTTQGLRSAG EQRGTGRQLHLHSAAPVRDPRG EAIWAPESGRSAASILKPARPPA HREERTTPDAPP*EL*HSPRKS ASLREDPWLHS*SQ*DQEP TNSGHTVSQDQSYYS*LEVSETKNP PIPDTL
14492	44860	A	14578	344	1632	FLAGPYLPSHGAGLGTCSLPCL SLPPTPWAPVRPEP/PPMSTTPCS TAPSPIDHPRAECERTAQDWQ AAPPAAPVWDPLGEASWAPES GTNISITPGNATFVTRVQQQAW FASCITGHDMSCLKTSSVVVLR RQSEALLPANLTCNWQDSSAL ATLESALSQVRHKRFTFTLMVF TGSADIMATVSIADVVSITESVQ TTAFVDNLAKNICDELLQDM DEAGNQHSQQNNTRTENQTPH VLTHKWELNNENIRIQGGEHYI LGPVGGRDEKTLRLRTYCLKSQ EGADTKCRNKHNETQKQSKS LVYSSTLNPEKLLVCKRLSLEL TRPENTLRCNTNIGKLKAVAGG MSAASGIYLETDTQPYPLKQEL KEIKECVGKNSVVVVFLVRKK LSVSQYAFARCLDAKHSTSENV EIAGKLRIQSFEVKGQL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *Stop codon, /possible nucleotide deletion, \possible nucleotide insertion)
14493	44861	A	14579	3	2233	NWLPSVSRCEQETHKIAANQSLT QRQMPLTSLYCDVVILPVSVGL ESLQSPYYRTSPCDPVSQFCLIK ISASSLPVLSLWTKLKNAQSVQ RDYRHDNKAHYFQKLVMTQE NLYVLLCDEELDAVSLEAVHQ QKMKNRQAHSSGCCQKVAN APRNEESSGQFRVIGNEKFEKG PCGVRQQIFEKVLLPNRTCEV TPRFNRNFDLIKDLKAAETLID FLVYEPKNQRRLVNRFRLPCKL LHNLGHPLKTDAAQSPRKPPGP SWMPSPGSKPPSHPLVSPHLNP QVWDTSPPSLATEHASLTISLKP NHPPYPAQSQYSIPQHALKGSKP VITRLLEHGLLKPINSYPNSPILP VQKLDKSYRLVQHLCLIQIVL PIHPMVPNPYTLSSIPFTTHYS VLDLKHAFITILYPSSQPLFAF TWTDPDTHQAQQITLAVLPQCF IDSPHYFSQAQISSSVTYLGIIL MKTHIHLGAVEQGVVLVGEAR AAQEPMEWVGSGM/CGLQVP SPAPWEGS*GPARNRAQ/PVTIV PVLDFNPAPFHIPDTTPDHHDCI SLIHLTFTFPFHISFFVPVPLEHT WFIDGSSTRPNCHSPAKEYAI VSSTSIIEATALPRSTTSQQAKLI AYTDSKCAFHILHHHAVIWEER NFLTMQGASINAFLIKTLKDI LLPKEAGVIHCKGHQKASDPIT QDNAYADKVAKQLAFQLLSL
14494	44862	A	14580	1	642	SGTVPTTFVRTVIQAQGARTVI QQSLIGSLYIFRHCVRCOGIESV FVIIIWSRVGYDEKGFCLFTSVL GVWGHVTRKPCLLITWRTLKS RSGLE*PAGFSSSPGTSPQIRKQ KRGVPQHPVCDLPGRFRPRAGT PLAAQIQVPLPPCGHQE*NRR WAGSSALCPPLYLCARAGTGAV CRACEPAGV/AGWAWAWWAP HSEHAASAPGRQWGT
14495	44863	B	14581	393	549	
14496	44864	B	14582	1	591	
14497	44865	C	14583	226	828	
14498	44866	A	14584	1	1362	

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14499	44867	A	14585	1	585	MANVHQTMPLRLRLPDSFKP PEPKSNSQRVSTEAGTAGALTP QHVRAHSSPASLQLGAVSPGTL TPTGVVSGPAATPTAQHFQSS FEIPDDVPLPAAREMAKTSSGQ RYFLNHIDQKTTQDDPRKTM SQMNVIANPPVQQNMMNS/PQS PQGGV/MGGSNSNQQRMRPQ QLQMEERLQLKQQ*LLQQLA LR
14500	44868	A	14586	345	1053	RWRLQNLSCSSCSGSGSEGAT CFARGRQQSNLQSKIFPSNTD SRSTGYNSFDRQPNICFYKRQE TPHTGPIIPVPEGRPYMPG*CG A*SPGPFASRN*SEKN*SYKCSL HTAFNVIFSSVI**RYCTRQWHI VKCLDSFCDPFLISDELRRASTD AGTAGALTPQHVRHSSPASLQ LGAVSPGTLTPTGVVSGPAATP TAQHLRQSSFEIPDDVPLPTSW GEAKTSSGSKIPIF
14501	44869	B	14587	607	1185	

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14502	44870	A	14588	1	2142	MIILDAEKAFDKIQPFMLKTL NKLIGDGYLKITRAIYDKPTA NIILNGQKLEAFPLKTGTRQGGP LSPLLFNIVLEVLAAQIRQEKEI KGIQLGKEEVKLSLFADDMILY LENPIVSAQKLLKLSNVSKVSG YKINVQKSQAFLYTNNRQTESQ IMSEFPFTIATKRKYLGQLTRD VKDLFKKYKPLLNKIKEDTNK WKNIACSWGRINIMKMAFPR WELNNENTWTQEGEHHTLGPV VGWGRGGIALVDIPNVNDKL MVLEVLARAIQKKEIKGIQLG KEEVKLSLFADDMIVYLENSIV SAQNLKLSNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSEFP FTIATKRKYLGQLTRDVKDLF KENYKPLLKEIREDTNKWKNIP CSRIGRINIMKMAILPKVIYRFN DIPKLPMTFFTELEKTTLKFIW NQKRACIAKTLSSKNAGGITL PDFKLYYKATVTKTAWYWYQ NRDIDQWNRTASEVTSHIYNH LIFYKPKDNKKWGNDSL FNKW CWENWLAICRKLKLDPFLTPYT KIHSRWIKDLNVRPKTIKLTLEN LGNTIQDIGMGKDFMTKTPKA MATKAKVDKWDVILKKSFCTA KETTRVSRQPTIEWEKIFAIPPS DKGLISRIYKELQIYRKKVTNN PIKKWAKNMNRHFSKEDIYAA NRQMKKCSSSLVIREMQIKTTM
14503	44871	B	14589	1	1647	
14504	44872	B	14590	1	2025	
14505	44873	B	14591	4	2121	
14506	44874	A	14592	2	1879	
14507	44875	A	14593	1	2130	
14508	44876	A	14594	1	3018	
14509	44877	B	14595	1	3171	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
14510	44878	A	14596	1	2700	MEKKQSRKKTGNSKNQASPPPP KECSSLQATEHSWMENDFDEL REQGFRRSNYSSELKEEVRTHGK EVKNLEKRLDEWLTTRITNAEKS LKDLMEKKTMARELLDECINLS SQFDQLEERVSVSMENQMNEMK PNLRLIGVPESDGENGTKLENT LQDIIQENFPNLARQANIQIEIQ RMSQRYSSRAIPRHIIVRFTKV EMKEKMLRAAREKGRVTLKG KPIRLKADLSVETLQARREWGP IFNILEKNFQPRTSYPGKLSFIS EGEMKSFTDKQKLRVYVTTTRP ALKELLKEALNMERNNRYQPL EKQIQTITIREYYKHL YANELEN LEEMDKFFDITYTLPRLNQEEVE SLNRPITGFEIEAIINSLP/TKKSP EPGGFTAEFYQRIEKEGILPNSF YEASIIILMLKPGRDTTKENFRP ISLMNIDAKILNKILANRIQQHI KKLIHQDQVGFIQMGQWFWNIR KSINIIQHINRTNDKNHIIISIDA EKAFYKIQQPFMLKTLNKLGD GSYLKIIRAIYDKPTANIILNGQ KLEAFPLKTGTGRQCPLSPLLF NLVLEVLARAIHQEKEIKGIQLG KEEVKLSLFADDIMIVYLENPIA SAQNLLKLKGNFSKVSQYKINV QKSQAFLYTKNRQTESQIMSEL PFTIASKRIKYLGIQLTRDMKDL FKENYKPLLNEIKEDTNKWKNI PCSWEGRISILQMAILPEVIYRF
14511	44879	A	14597	1	2310	
14512	44880	A	14598	1	1305	
14513	44881	A	14599	1	2148	
14514	44882	B	14600	1	777	
14515	44883	A	14601	2	2971	
14516	44884	A	14602	1	3810	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,402,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /=possible nucleotide deletion, \=possible nucleotide insertion)
14517	44885	A	14603	1	1773	MNIGAKIINKILANQIQQHIRKLI HHQVGFIPGMQGWFNICKSIN VIQHINRTKDKNHMIIISDAEKA CDKIQRFMLKTLNKLGDGKY LKIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPLSPLLFNIVL EVLARAIRQEKEIKDIQLGKEEV KLSLCADKMIVYLENPIVSAQN LLKLISNFSKVSGYKINVQKSQ AFLYTNNRQTESQIMSELPFTIA SKRIKYLQIHQTRDVKDLFKEN YKPLLKEIKEDTNKINIPSCVG RINIVKMAILP/KELEKTTLKFIW NQKRARITKSILSQKNKAGSIM LPDFNLYYKATVSKTAWYWY QNRDIDQWNRTEPSEITPHIYN YLIFDKPEKNQWGDLSLFNK WCWENWLAICRKLKLDPLTL YTKINSRWIKDLNVSPKTIKTLE ENLDITIQDIGMGKDFMSKTAK AMAAKAMSTKAKFGKWDLIK LKSFTAKETTIRVNRISYASS STSLQAFSRKILNCSKRFFKIAQ MCKLVELRPQDMIHTRSGSGNC SEARTLLCDFSAGRTSVNHGRI WRQIREAGAADPEIGLEVCNKN PTSFTLFYFLSYTTG
14518	44886	B	14604	1	2070	
14519	44887	B	14605	1	3190	
14520	44888	A	14606	1	3370	

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14521	44889	A	14607	569	3030	RKH*TWKRTSSTSHHKNMNP* LEKQEQTTH/SKPSRRREITKIRA ELKEIETPKTAQKINESRSWFSE RINKIDRPLARLRKKREKNQI DTIKNDEGDITTHPTIHTIIREY YKHLKYANKLENLEEMDKFLDT YTLPRPNQEEVESLNGPIAGSEI QAIINSLPTKKSPGPDGFYQRYK EELVPFRLK1.FQSIEKEGILPNSF YEASIIIPKPGRDITTKENFRPI SLLNINAKILNKILANRIQHHK KLMHHDQVGFIPGMQGWFNIR KSINVIQHINRTKDKNHMIISID AEKAFDKIQPFMLKTLNKLGI DGTYYHKIIRANYDKPTANIILNG QKLEAFPLKTGTQGCPLSPLL FNIVLEVLAIRQEKETEIGQL GKEEVKLSLFADDMIVYLENPI VSAQNLLKLISNFSKVSQYKIN VQKSQVFLYTDNRQTESQIISEL PFTIASKRIKYLGIQLTRYVVDL FKER/YNEIKEDTNKWKNIPCS WVGRINIVKMAILPKVIYRFNAI SIQLPMTFFTELEKTTLKFIVNQ KRAHIAKSILSKKNKAGGIMLP DFKLYYKATVTKTAWHWYQN RDIDQRNRTEPSEIMPHVYNHLI FGKPKDNKQWGNDSLFNKWC WENWLAICKKLKLDPFLTPYT KINSRWIKDLNVRPKTIKTLLEN LGNNIQDIGMGKDFTSKTPKA MATKDKIDKWDLMLKLSFCTA
14522	44890	A	14608	1	2742	
14523	44891	A	14609	1	3828	
14524	44892	A	14610	1	2667	
14525	44893	A	14611	1	2325	
14526	44894	A	14612	1	3057	

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14527	44895	A	14613	603	2973	DNTARGETIRQQHLLFTNIRCSA ASAADTQANRVWSGPPANSNR PAAARVLTVRRTKNKQKGPH QNPICSPSSKTKETQTTIREYY KHLIYANRLENLEEMDKFLDTY TLPRLNQEEVESLNRRTESDIE AIINSLPTKKSPGPDGFTAIFYQ RYKEELVPFLKLFQSIEKEGIL PNSFYEASIIIPKLRDRTTKE NFRPISLMNIDAKILNKILANRI QQHIKKHHGGVGFIPGMQGW FNIRKSINVIQHINRTNDKNHMI VSIDAFAFDKIQQPFMLKTLN KLGDGPYLKIIIRAIYDKLTANII LNGQKLEAFPLKTGTROGCLLS PLLFNIVLEVLARAIQEKEIKGI QLGKEEVKLCLEFADDMIVYLE NPVSAQNLLKLISNFSKVSQYK INVQKSQAFLYTNNRQTESQIM SELPFTIASKRIKYLGIQLTGDV KDFFKENYKPLLNEIKEDTDKW KNIPCSRVRINIMKMAILPKVI YRFNAIPKLPMTFFTELEKTTL KFIWNQKRARIKASILSQKNKA GGITLPDFKLYYKATVTKTACH RVGRAQQHSISKWKWYIHDWS QVGPEGTNDSARYPDTTQKWT AAALQPLSRTSLKDSHEGKSSQ WAELEAVHLVLRFAWKEKWP DVQLYTDWAVASGLAGWSG TWWKHDWKIGDKEIWGRATPV IAQWAHEQQRHGGRDGDYAW
14528	44896	B	14614	1	3105	
14529	44897	A	14615	1	3654	



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14530	44898	A	14616	735	2839	RSFPRSFPFLLSRYLRHIMV FSVLPFGLQNP KYLLSGSLQEK FRTPGINSHKTLDPNRV I I K VRR RLEKEKALRAYVGKSEVRNMH LRERCKL*KKREKNQIDTIKND KGDITDATEIQTITREYYKHLY ANKLENLEEMDKFLDTYILPRL NQEEVESLNRPI TGSEIAIINSL PTKRSPGPDGFTA E FYQTYKEE LVFPPLKLFQSTEKEGILPNSFY EASIIIPKGRDRTTKKENFRPIS LMNIDAKILNKILANRIQQHIKK LIHQDQVGFIPGMQGWFNKRK SINVQHINRTNDKNHMIISIDAE KAFDKIQQPFMLKTLNKLIGDG TYLKVIRAIYDKPTANIILNGQK LEAFPLKTDTRQGCPSPLLFNI VLEVLARAVRQEKEIEGIGLQK EEVKLSLFADDMIVYLENPIVS AQNLKKLISNFSKVS GYKINI QK SQAFLYTNNRQTESQIMSELPFT TASKKIKYLGIGLQTRDVKDLFK ENYKPLLNEIKEDTNKWNIPIC SWVGRINIMKMAILPKVICRFN AIPKLPMPFFTELETTTLKFIWN QKRARIAKSILSQKNKAGGITLP DFKLYYKATVTKTAWYWYQN RDIDQWNRTEPSEITHIYNYLI FDKPEKMSIIDTGGWYEA PVSS FFKEGLCRTGTENQVNRQPPAA SPFKVYVVSCTGSLHPRPHYFLE
14531	44899	A	14617	1	2250	
14532	44900	A	14618	1	2870	MKAIEKVFFETNENKDDTTYQNL WDTFKA VCRGKFIALNAHKRK QERSKIDLTSLKLEKEQEQT HSKASRRQEITKIRAELEIQTQ KTLQKINESRSWFFERINKIDRS LARLIKKREKNQIDTIKNDKG DITTDPTIQTITREYYKHLYAN KLENLEEMDKFLDTYILPRLNQ EEVESLNRPI TGAEIVAIINSLPT KKSPGPDGFTA E FYQSWAETQP KKENFRPISLMNIDAKILNKILA KRIQQHIK

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14533	44901	A	14619	248	2623	RQWAGVVGRCSHLASVWSSNT SETGAIRSSTEVDAPDDSMMLST CDIDLTAARRAWLGCLPTKKSP GPDGFTAIFYQRCKEELVPFL KLFQSI/EKEGILPNLFDEASILI PKRGRDITTKENFRPISLMNID AKILNKILANRNQQHKKLIHH DQVGFIPIGMQGWFNICKSINVI QHINRTKDKNHMIISIDA EKAF DKIQPFMLKTLNKLGDGTYL KIIIRAIYDKPTANIILNGQKLEAF PLKTGTROGCPLSPLLFNIVLEV LARAIRQEKEIKGIQLGKEEVKL SLFADDMIVYLENPIVSAQNLL KLISNFSKVSAYKINVQKSQAF LYTNNRQTESQIMSVFPFTIASK RIKYLGIQLARNAKDLFKENYK PLLNEIKEDTKWKINPCSWVG RINIVKMAILPKVIYRFNAIPIKL PMTFFTELEKTTLKFIWNQKRA RIAKSILSQKNKAGGITLPDFKL HYKITVTKTAWYWYQNRDIDQ WNRTEPSEITPHIYNYLIFDKPE KNKQWKGKDSL FNKCWENWL AICRKLKLDPFLTPYTKIHPRWI KDLNVRPKTIKLEENLGNTIQ DIGMGKDFMSKTPKAMA AKA KIDKWDLIQLKSFCTAKETTIRV NRQPTKWEKIFATYSSDKGLIS RIYKELKQIYKKKTNNPIKKW AKDMNRHFSKEDIYAANKHM KKCSPLAIREMQIKTTMRYHL
14534	44902	A	14620	1	3253	MGDFNTPLSLDRSTRQKVNK DTQELNSALHQGDLIDIYRTLH PKSTEYTFPSAPHITYSKIDHIV GSKALLSKWKRTIHTNYLSDH SAIKLELRILNLTQSRSTTWKLN NLLNDYVWHNEMKAEIKMFF ETNENKDDTTYQNLWDAFKAVC RGKFIALNAHKRKQERSKIDTL TSQLKELEKQEQTTHSKASRRQE ITKIRAELEKETQKTLQKINESR SWFFERINKIDRPLARLIKKRE KNQIDTIKNDK
14535	44903	B	14621	1	2758	
14536	44904	A	14622	1	5178	

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14537	44905	A	14623	1	3382	MGDFNTPLSTLDRSTRQKVNK DTQEFNSALYQADLIDYRTLH PKSTEYTFFSAPHHTYSKIDHIV GSKALLSKCERTEIITNLYSDHS AMKLELRKIKNTQNCSTTWKL NNLLNDYVWHNEMKAEIKM FFETNENKDTTNQNLWDAFKA VCRGKFIALNAHKRKQERSKID TLTSQLEKELEKQEQTHSKASRR QEITKIRAELEKIEIETQKTLQKIN ESRSWFFERINKIDRPLARLIKK KREKNQIDTIKNDK
14538	44906	A	14624	965	4091	TWKGTTSTSRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDY RTLHTKSTEYTFFSAPHHTYSK IDHIVGSKALLSKCKRTEIITN YLSHSAIKLELRKIKNLNQRSTT WKLNNLLNDYVWHNEMKAE IKMFFETNENKDTTYQNLWDA FKAVCRGKFIALNAHKRKQERS KIDTLTSQLEKELEKQEQTHSKA SRRQEITKIRAELEKIEIETQKTLQ KINESRSWFFERINKIDRPLARLI KKKREENQID
14539	44907	A	14625	3	3229	
14540	44908	B	14626	1	2791	
14541	44909	A	14627	1	3158	MVKGSIQEQEELTILNIYAPNTG APRFIKQLSDLRDLDSHTLIM GDFNTPLSTLDRSTRQKVNKDT QELNSALHQADLIDYRTLHPK STEYTLFSAPHHTYSKIDHILGS KALLSKCKRTEIITNLYSDHSAI KLELRKIKNTQSRSTTWKLNNL LLNDYWRKQERSKDTTLTSQLE KELEKQEQTHSKASRRQEITKIR AELEKIEIETQKTLQKINESRSWFF ERINKIDRPLARLIKKKEKNQID TIKNDKGD
14542	44910	B	14628	1	7849	
14543	44911	A	14629	1	3985	MENDFDELREEGFRSSNYSEL WEDIQTKGKEVENFEKNLEECI TRITNTEKCLKELMELKTKARE LHEECRSLRSRCDQLEERSAM EDEMNMKGEGKFREKRIKRN EQSLQEIWDYVKRPNLHLIGVP ESDGENGTKLENTLQDIIQENFP NLARQANVQIQIRMPQRYSS RRATPRHIIVRFTKVEMKEKILK AAREKDRSTRQKVNKDTQELN SALHQADLIDYRTLHPKSTEYTF FSAPHHTYSKID

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14544	44912	B	14630	64	5735	
14545	44913	B	14631	891	6894	
14546	44914	A	14632	33	476	
14547	44915	A	14633	1	360	GQGEPEKQLGRHPGVLRPHVVS AKTGDACITWQVRNLFPERPK VQWKEGCA\IQSGNSQESVTEQ GSKVSA\YLSPLTLKADYEK HKLYACEVTHQGLSSPVTKSFN RGEIEGEVPPCI
14548	44916	A	14634	40	508	LPGECHRAQQGQRLQPQLLG LLMLWVPGSGGEIVMTQTPLSS SVTLGQPASISCRSSQSLVHSDG NTYLTWLQRRPGQPPRLIYHV FKRFSGVDPDRFSGSGAGDTFL E/ISGRVEA*\DVGVYYCMQGT QFPCSFGQGTKLETKRTVAAPS
14549	44917	A	14635	3	652	AWWNSETPAQLLFLLLWLPHY TSGEIVLTQAPGTLSLSPGERAT LSCRASQTIGSTYLA\WYQQRPG QAPRFLIYGASSRATGIPDSSSSS SSSSSSSSSSSSSSSSSSSSSQ YNNWPPGGTFGP\GTKVEIKRT VGCTHLFFIFPAHLM\SQLKIWE LPSACVPVCNNFY\PREVQYSYG KVDN/VPSNRVTPRESVTEQDAS KDSTLQPSAATLDA
14550	44918	A	14636	3	440	
14551	44919	A	14637	457	1270	SRRVSFPPSA*QAVSDPSRQQLP SLRLRWGPEGRSFFAENLGRGV RWVGGRDPLAA\LP*SSGPLNA GRLFARPQESGAPRIGNVRDVP RAREDVGTQAGREREFPRLFG PAAVVGCERHLSPFPRAAGAG GRAGAAGRRSAPPGLGSCRSC RISAGPHGNDVPTLGGRGW/PL *NSGAEKL*EQ*G*/TGTSWSL AAILGGVPREP\GFRGAGRETIG PRGWL\VMLSRAVLLHSVLLCT CHSSWVLLHSDLACHADNNPD IQSCLFPMISKY
14552	44920	C	14638	90	465	
14553	44921	A	14639	116	439	
14554	44922	C	14640	278	364	

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14555	44923	A	14641	116	687	EIKDAALQLPLWRAQDRERAM KERREKRREREKERDREKKRK EKMFCRKRSCHTIMEPTPELSCV LPCLAPJVLAPPPLPLPVLP ATR*LPQQNRQSTLTEAHGLATR GPITLANRCMPSTTRDRRLT PPSTLPNTTNLSWGVREGPNQD PEPSLSPCVPHDPFDYNAESLFS YWLVSVPMTAHTP
14556	44924	A	14642	474	1166	HPNRQGLRAPATAPGHPGREQ ALCEAPQGPQKCGPPRAQEA Q/GTEPRRASRAAGACRHHWP QVAIRPGAGAPAGAARLGGV*E PGRAA/APRLPLPSQCCHR*GTS PAHLSASRSSSATCPWRRTAGR SGPSPCMTLLKQRQGHPRDGWI RAPSCDVTNRGLSSLLNLGGSA QQLLLASRPLGSGSGALEALEH GKSRAWPWPLHGTNPVHVK DPAGSTSHWPRPPAPRT
14557	44925	A	14643	283	806	PRGSFSTGRTRNAAGSTSNCSL RSLSARIEERKVSRCVGVPNHR HLRLGALTTRTPSWNGAIPTLA KLPAKRC*RRSGRRSKTWSFPG ST*LGNF AEEMICAASARPAGV PGPALPTPLRAPLPGVPWTSSR GRMCARLSCC/HAGRPVPARPG AARARRAAAGERHRPPALRV
14558	44926	A	14644	1	338	
14559	44927	A	14645	1	1091	MSNDGRSRNRDRRYDEVPSDL PYQDITIRHTPLHDSERAVSA DPLPPPLPLQPPFGPDFYSSDT EEPAIAPDLKPVRRFVPDSWKN FFRGKKDDEWDPVSDIRYIS DGVESPPASPARPNHRSPLNS CKDPYGGSEGTFSRKEADAVF PRDPYGS�DRHTQTVRTYSEKV EEYNLRYSYMKS WAGLLRILG VVELLGAGVFACTYA IYHKDS EWYNI.FGYSQPYGMGGVGGL GSMYGGYYYTGPKTFVLVVA GLAWITTHIILVLGMSMYRTIL LDSNWWPLTEFGINVALFILYM AAAIISM*MIPTRGGLCYYPF NTPVNA/GSAG*KEDR*LQ*SSC LSP**FISLVLWFA

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14560	44928	A	14646	398	1107	SPGLVCGLLIFCKVTVPICAGPY RCPFGGLRH*SAR*QPPSGLREN GARPPGGEWLCP*FPP*PLNSR WKLPPRLVT*GEPWAAGEKFP RLGAGTGPAAGEGLPRARDWE PGRAGPERWAPGRGPAGTPAK TAAVKRSAPLPGSGDYANGER KPPSPFCQVKSGLN*VLCG*RL SLPAA*KPKKA*RRGRRQSPGK TGYQVQQTRPKNDPKSSIGPSP KNRQSLCLQPLWSFLIQ
14561	44929	A	14647	1	540	MGVRDPLEEAVCALAEQLHCA GRFAALFRASQERLSLLKLCPL QLPLPPRALSQGYKPLIGLLAF FQRCTAQRGGI*RGSLATVTLIS CGGLCPV*TSQRRCLPVRGKLP TQASVMANAPPRTLRQLHRLSTS DCCAGSENFKPVLSLLGSVGV GSTELDHLAPWLQPAFQGEW FYLTIF
14562	44930	A	14648	169	487	EVCYYPSETYFCQFVKLLICPV LFPCWQGVVQPKLSCMRCLST LLRGVSQ*GYMGVRDPLEEAV CPLAELEHCAGRSAAFRAGRQ ERLSLLKLRPQLPLSPSA
14563	44931	A	14649	1	210	
14564	44932	B	14650	1	1683	
14565	44933	A	14651	1	529	MDSEVQADDEVSDENGELIGN WGKGGMGVSDPLEEAVCPLEAE LERSAGRSAAFRASQECLESL LKLTLTAAPSPRGTAFRSPFKS PAQRSSIIC*Q/LYSCKTFRSTVA PMPRLCLQASGKVQ*EN*SWA IPA*QGTSPMCSLCSGAPHQPG APLVLPPLPPVNRRLRELQCWL
14566	44934	C	14652	295	430	
14567	44935	A	14653	452	637	
14568	44936	A	14654	151	446	MVLSHWHSRCHWGMKKNYLQ LARCLPKWLPSFVFETQGPCDV STQGTLLVYGLQRPWEKHSI*A R*HHPSQHGPSQLPLARGSSP TPCASRMQRHPT
14569	44937	A	14655	2	335	EDRSAFRPRQPTHPLHPLHARS APKSPTPSPSPDTQLGLSGPTS GPESAPTA/PGNPSWRSSRWGSS SPCAASST*KSPYP*/CSP/CAFP SPRLPFCRSAYQPAAGAGRGK
14570	44938	B	14656	373	502	

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14571	44939	A	14657	1	400	GSPAPAAAMDEERALYIVRAGE AGAIERVLRDYSDKVKSPGPGR AVSHPRAAALRACTSHPSPPSPFR GCALPPPKTFPAWACVFVPPAF SIHAS/SHPTTPTVAPTPLIPGPA A*PPVLLSSVQVTPPESVDVHL
14572	44940	A	14658	659	1177	ARKGSALLRLYSNAWCVCVK VLRIFSTASAYITRRDSSLGPVW TFLNFSFGSPGEIPTPFFFFPVFP LPLVAWFCPASFCPLPQCPLVPS EPSPPPHSGDAHCSPPKTFPAW ACVFVPPAFSIHAS/SHPTTPTV APTPLIPGPA*PPVLLSSVQVTP PPESVDVHLCPVPHS
14573	44941	B	14659	1	318	
14574	44942	A	14660	2	131	
14575	44943	A	14661	354	762	CPEIRPPS*THGTHK/SHFPPTASG THSVLEAL/PDTRQSPSRVHQ DPSPAI/PALLPSHEHGQPHLL QLPSHRCHPDAPFNCDVAKAC PGHATAALEHPYLSGRQSPSP THLPKLPAGRGYTVCALPKPGG ERSAV
14576	44944	A	14662	157	413	ALVCS/SSLAIREMQIKTTMRYH LTPVRMAIIKSGNNRCWRC GEIGTLLHCWLDCKLVQPLWK SVW*FLRNLELEIPFDAIPLL
14577	44945	A	14663	1926	2448	DFIAVITTRKQLKTKYNAHHSK QAITKHFSPKISDLILCLKKKIM NRHFSKEDIYAAKKHMKKCS SLAIREMQIKTTMRYHLTPVRM AIIKSGNNRCRRGCGEIGTLLH CWWDCKLVQPLCKSMWRFLR DL/DPAIPLLGIVPKDYKSCCYK DICTRMFIAALFTIAKTWNQP
14578	44946	A	14664	1	1584	
14579	44947	A	14665	1	4729	
14580	44948	A	14666	1	1566	
14581	44949	A	14667	1	1424	
14582	44950	A	14668	1	576	
14583	44951	A	14669	1	3325	
14584	44952	A	14670	1	2195	
14585	44953	A	14671	1	3162	
14586	44954	B	14672	287	2018	
14587	44955	A	14673	1	1073	

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14588	44956	A	14674	1	3335	MVKGSIQEEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNITPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRTLH PKSTEYTFSSAPHHTYSKIDHIV GSKALLSKCKRTEIITNYLSDHS AIKLELRINKLTQSRSTTWKLN NLLNDYVWHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNVYKRKQERSKIDTL TSQLKELEKQEQTSHKASRRQE ITKIRAEKKEIETQ
14589	44957	A	14675	1	1838	MIIPIDAEKAFDKIQPPFMLKTL NKLGIHGMYLKIIRAIYDKPTA NIILNGQKLEAFPLKTGTTRQGPC LPPLLFNIVLEILARAIHQEKEIK GIQLGKEEVKLSLFADDMIIYLE NPIVSAQNLLKLISNFSKVSQYK INVQKSQAFLYTNNRQTESQILS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLEIKEDTNKW KNIPCLSIGKINIMKMAILPKVIY RFNAIPIKLPMTFFTELEKTTLK FIWNQKRARIAKTILSQKNKDG GITLPDFKLYYKATVTKTAWY QYQNRDIDQWNRTEPSEIIPHV YNHLIFDKPDKNKKWGKDSLF NKWCWENWLAICGKLKLPFL TPYTKINSRWIKDLNVRPKTIKT LEENLGNTIQDIGMGKDFMSKI PKAMATKAKIDKWNIELKSFC TAKETTISVNRQPTWEKIFAIC LSDKGLISRIYKELKQRHKKKT NNPIKKWAKDMNRHFSKEDIY AANRHMKKCSSLAIREMPIKT TMRHYLTPVRMAIIKSGNNRC WRGCGEIGTLSHCWDCNLVQ PLWKAVWRFLKDLELEIPDPA ISLLG/TPYKDYKSCCYKDTCTQ STFTCRQHLPL



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14590	44958	A	14676	1	2354	MGDFNTLLSALDRSTRQKVNK DIQELNSALHQADLIDYRTLHP KSTEYTFPSAPHRITYSKIDHLV GSKALLRKCKRTEIITNCLSDHS AIKLELRICKLTQNHSTTQQLN NLLNDYVWHNEMKAEIKMFF ETNENKDTTYQNLWYVKDTRI SGMLWYVKAVCRGKFIALNAH KRKQERSKIDTLTSQKLEKQ EQTHSKTSRRQEITKIRAEKEI ETQKTLQKINECRSWFFFEKINKI DRPLARLIKKREKNQIDAIAKN DKGDIITDPTEIQTITREYKHL YGNKLENLEEMDKFLDTYTLPL RLNQEEVESLNRPIGTGSEIAIIN SLPTKKSPGPDGFTAIFYQRYK EELRIKYLGIQLTRDVKDLFKE NYKPLLNEIKEDTNKWNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMTFFTELEKTLTKFIWN QKRARIAKSILSQKNKAGGITLP DFKLYYKATVTKTAWYQYN RDTDQWNRTEPSEIMLHIYNHL IFDKPDKNKQWGKDSL FNKWC WENWLAICRKLKLDPLIPYTK INSRWIKDLNVRPKTIKSLEEDL GNTIQDIGMGKDFMSKTPKAM ATKAKIDKWDLIKLSFCTAKE TTIRVNRQPTWEKFFAIYSSDK GLISRRYNNELKQIYKKKTNSPIK KWTKDMNRHFSKEDIYAAKRH MKKCSSLAIREMCIQTMMRYH
14591	44959	A	14677	1	3144	
14592	44960	A	14678	1	2745	
14593	44961	A	14679	1	2742	
14594	44962	A	14680	1	3264	
14595	44963	A	14681	1	2982	
14596	44964	A	14682	1	3102	
14597	44965	A	14683	1	1443	
14598	44966	A	14684	1	3723	
14599	44967	A	14685	2	1841	
14600	44968	A	14686	572	744	DLLTTIRMPDVKKCSSLAIRE MQIKTTM*YHILTPVRMPIIKKS GNNRCWRGCGEI
14601	44969	A	14687	1	3588	
14602	44970	A	14688	1	5569	
14603	44971	A	14689	1	3992	

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14604	44972	A	14690	755	2415	QELRVSGWSPASAPANT*CPPA QPCPTRRSGGQAPARTSRPG SRPRTASALPRPAAQKAASRSA RASRTNPYTAPKPLPSVESALQ EAAIGEHAHQQRVSTCAAPA APPSPAWPWSAARSAAPPRT* ASAPA*SPL/PVRLKSPGSSNC EARGEGWKT/PALPVQLGAHG PQPAAVPCASPGSGAGPRWSRS ARRTPRGPLQGRGTWVSPDPGR EATPSGTQWPQKTRGSLPGS*C APETPCSA*SSGTSPPRGAGGC CPGTVPFALEGHN*PQRWGS AGRVETRAEGPQCQAGAPAGC SLGVGGQRGPPGLPIPVPLGC* TCRSS*MEAATGSVEKCKRMA SLMQASRWSFLRVAPVSGQVK YTPGTARWAEPSLGSDDLVP GAS/RAPADGGFGLKFLSHLVS DGVLRCCGPRPGTASAPAGLR AAAA/PSVPSLVGPWRGGLGAG WLGFSLWAFSPTDSLFS*PGPA LLNLMSALNS*KNFFMVAARS CGGGTRGRGGTGPSRGRGRRR PATGRK*KKKKKKKKFTSPPEV PPSPGLPRDNRL
14605	44973	B	14691	1	822	
14606	44974	A	14692	1	2789	MAAVRKQLPRGVLGYGGSGAL LSTAAADTSLLLGSLQERKSAS AGPGYLRSVAAWSGLWLTGA SEAHSVVLACFSRKDVEASLSV GLPVHPDASCARRLDAADGVA GGSPRLPQSTDGWRLTAHSLPQ STDGWRLTAHSLPPTDGWRL TAHSLPQSTDGWRLTAHSLPPP TDGWRLTTHSLPQSTDGWRLT AHSLPQSTDGWRLTAHSLPQST DGWRLTTHSLPQSTDGWRLTA HSLPQPMDDGWSCRSQAQVCV
14607	44975	A	14693	176	440	
14608	44976	A	14694	114	253	

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14609	44977	A	14695	124	890	GSRAWDRPRLVAAATTTLFY GYGFVSAELKKASKRMTCHKR YKIQK\KAPEHHRKIRGEAKKR GHNKPRKDPGVPNSAPFKEAL LAREALRKQRLEELKQQQKLD RQKELEKKRKLET*SWIFKPSN VDPMEKVEFGLCKTENKAIRSG KQNSKKLYCQELKKVIEASDV VLEVLDARDPLGCRCPQVEEA VQSGQKKLVLYLNKSDLVP KEDL\ESWLKLF*RKDLPSNGCF RASTKTQRVKGKITKVSFIS
14610	44978	A	14696	553	997	EVTACWSSQPSLTLGASSAW APTLAALIEPFSPLLHCGSPFLG WPRLEPAPSAPPWAPVPEPPQ QGPPSAPGRPIPTTQGLRSADA GRRTGTQLHRQPAKVCFS/IS*S QRDHEPTRRNEQLQTRRLKSCN THREDLQLHSRRKKL
14611	44979	A	14697	1410	2036	
14612	44980	A	14698	3	630	RYKGSRPHQTQEPSWLHLVDP APGLQVELPASPAPCARIQPL GGRWDWAPWSRGWCSSGRLG QHRSPWSGWEAQAWRAAGPK PCPAGRQLRPGKSSTAPVGRH CWGIQYTLRSHWPGC*VPHSSG PAGLAGCSGTPAGPQAPHAAP VPARA/CSLHTSLQAEGVGSSL GQPRKGLPQCRWGLKGSSNAA KVGAQAGEVQARALRTAS
14613	44981	A	14699	190	383	ASHPLRGLRSGRSLPDERHRL HSAQSHRPPKG*GVRAGAGL T/WQLHL*PQCGIHWVKPAGLL
14614	44982	A	14700	1	1095	
14615	44983	A	14701	1	777	
14616	44984	A	14702	1	933	
14617	44985	B	14703	1	996	
14618	44986	A	14704	978	1207	ASLPLRGLLCCPSLPEERRPLLH GAQSHRPPKG*GVRAGAGLA/ WQLHLRPRCGIHWVKPAGLLS LGPHQQSSKSA
14619	44987	A	14705	111	558	

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14620	44988	A	14706	1	1103	MKPWALKVSVTALKVARLEFV PPDVRMCSEFLPCGVKLQTFAY SVTALKAAARLELFVSPGGLVVS LASGVKLQTFPVSVTAHKSSVD PRSEQQDLLQRAKEQTFHTVE GDRSGSPDSSGAQLASPSGSR RAAGGAACQSRALRPHSSALG WSMGLGAVEQGAVIDREARAA HEPMERVGGSGMAGCRSRALP REKAAKARRETEGSAAVSGWL SGIAQWPKIDHEGFRAVKMPQ AAWLLKAVTFIDLTLSGDDTS SNIQRLCYKAKYPIREDLLKAL NMHDKVAAGFPAGQTHLKTRL EEIRLAVEDGATEIDVVINRSLV LTGQWEG/LYSPVVYSALPCNI* HSRLFLPSGNALLWLWCLHS
14621	44989	A	14707	2	2300	
14622	44990	A	14708	2	1058	ARSNIRMVTAFRSLPAGSSGAA RA\MSAHNRGTELDLSWISKIQ VNHPAVL\RRAEQIQAARTVVK KDWQAAWLLKAVTFIDLTLS GDDTSFNI*RLCYKAGYPIREDL LKALNMHDKGITTAAVCVYP ARVCDVAVKGTSRPAQ/CVNIPV GISRAAGFPAGQTHLKTRLEE IRLAVEDGSLQKIDV\VINRSLG A*QAQWEALYDEIRQFRKAC GEA\HLKTILA\TGELGTLTNVY KASMIAMMAGSDFIKTSTGKE TVNATFPVAIVMLRAIRDFFWK TGNKIGFIPAGGIRSAKDSLAW LSLVKEELGDEWLKPELFRIGA STLLSDIERQIYHHVTGRYAAY HDLPMs
14623	44991	A	14709	576	998	VLQFLKAACPEFVPSGVPMCE YLPSPGGFVSLASGVKLQTFPV SVTALNALRLLEFVPPGGLMVS LASG/GSCRSSR*VLQLIKAVWT QRPLGGRWDWAPWSRGRRSFG EARAAQKPMEGVGGSGMAGC RSRSPAPREGS
14624	44992	A	14710	2	589	RHHPRHVAQARFPFAPGLAGA QRGSGAE*RGPGGS/PAGLGS GGESL/PGETDRGADKEERGRQ RWQRALGRLSAGADPLPAELR GRRQRGR*AGQRAAQEAACE APIQSGSARNGRRG*GRRL*GC YQ*V*FPGLTRGWGRSRPSAV HCGWEPP*AGKPSGQTPRHSG* PAGVVDGLPPKVTGPPPGTPQPR

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14625	44993	A	14711	1	1596	MRLTRCQAALAAAITLNLVLF YVSWLQHQPNRSRARGPRRAS AAGPRVSLPPHPLTCVWRCSR AMDRPPAASRPETTVATEFVAL VLDGARAEAHALLERMVEALR AVSARLVAAVPVATANPARCLA LNVSLREWTRYGAAPAAAPRC DALDGDVAVLLRARDLNL PLARPVGTSLFLQTLRGWAV QLDLTFAAARQPPLATAHAR WKAEREGRARRSALLRALGIRI VSWEGGRLEWFAACNKKNQRC
14626	44994	A	14712	225	980	VPSRTWAEYRTRFVPHSLGQPR SSHIPQSPQTDQTAQQQALAP PAGRSGQ*GRPGRRLGPGER HS*APPLSQLLQTFPHLQALP SAHARPSGQPHADRHSRSPSG /DLSTSSVLKVVVPQAGGPKQA RCPQAGRVCHCPRGGRRGPE/Q Q/GG*RPEAPQASPEKGSTGLRP SAKDSKNQGTGIFLRQCVAPRP EALCCPPPRGADTPVSPCLWVA GAGIPLQPPEGAEGAVLGSCLT LCPGSPDSPPTS
14627	44995	B	14713	405	893	
14628	44996	A	14714	178	499	
14629	44997	A	14715	231	436	
14630	44998	A	14716	141	393	
14631	44999	C	14717	97	351	
14632	45000	A	14718	119	358	
14633	45001	A	14719	21	614	PPCTSLRPLHAFSGKMTLNRG TLSLDLSQLHNLIALQMTCFKD VEIPNFFWEPSTVPSHRNINMYF PAAVFGFLPISGTLFSYCKIVSSI LRVSSSGGKYK/AFTTCGSHLS VVC*FYGTGGGYLSSDVSSSP RKAASVASMYTVITSMNLNPFY SLRNRDIKGVL RQPHGSTVQFQ YLLICSIPIFVVVWVKKGSKVK
14634	45002	B	14720	162	1263	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
14635	45003	A	14721	696	1791	VWIALKSENITCELLLFKMQTQ CQVLVYLFPFQPSFLGKRCPIS TDPQNLTDVSIFLLLEVSGDPEL QPSPCWA VPCCAWVTVLGNL LIILAISPDSHLHTPMYFFLSNLS LA/DIGFTSTTVPK/MIVDI/QSHS RVISYAGCLTQMSLFAIFGME EDMLLSVMAYDWFVAICHPL YHSAIMNLCVGVFLVLLSFFFFA LSLSDSQLHNLIALQMTCKDV EIPNFFWEPSQLSHLACCDFTN NIIMYFPTAIFGLPISGTLFSYY KIVSSILRVSSGGKYKAFSTCG SHLSVVC*FYGRGVGGYLSDD VSSSPRKGAVASVMYTVVTPM LNPFYISLRNRDIKSVLRPTEH CLISKK
14636	45004	A	14722	1	1971	MTRKVTLLLRRTWRGGCGRLA MGMEATPQGS LHPLFQEHWIR AEDFGLSPMHPNSVQGVDDM IRLGDLEAGMVHNLIRYQQ HKIYVSLSPVSTGEPLTGANLL DREKMMHHRGHCPIALTEGVS GPDNPEGRARAKAKAKARAE PLPGAEGTDHLLPSQTYTGILV AVNPFQVLPPLYTLEQVQLYYSR HMGELPPHVFAIANNCYFSMK RNKRQDQCCHSPQNRVGAQTDT VLKVFQHLLISLICKTTLQACCI PSHPYLSAPGPPPLTTQCRSYS DSLGPQLFGDVVCYNCSHVIEG DGEALCSLPHTCSGAWVLQL VSPLNKA WCVSCFCSTCNSKL TLKNKFVEFDMKPVCKRCYEK FPLELKKRLKKSELTSRKAQP KATDLNSAEGPLAQLGAVGA/V TGITHEPHIPQVENGSQLDDV PALGVENWRIFMAERMEAQ GQRLLLSTMHEEYEFVSPSSVAI AELVALFLEGLKERSIFAMALQ DRKATEGGPVGLTKKQGLLAS ENWTLGQNDRTGKTGLVPWH CLYTIHTVTKHSDSCCTA VPTL LEASSGCIFMSYKKHITLTPKSA DSNKRPS TLGSQFKQSLDQLMK ILTNCQPYFIRCIPNEYKKPLG FSDSFMLIKLIRIDK VQYDSFSYI

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14637	45005	A	14723	1	1197	MNMNKKIVKQATVLTFTTALL AGGATQAFAKENNQKAYKET GVSHITRHDMLQIPKQQNEKY QVPQFDQSTIKNIESAKGLD VWDSWPLQNADGTVAEYNGYH V VFALAGSRKTLMTHQSTCPKH RASRVGPSNLSQNKQTVKKGD QTSVRRKRNDLKVEERHKNNH LARELTSSAAAAAPTGHAAATA QAPQRHVEVGRAAAPAGDLGE GIVGEQVLGAERLVGPDSRAR ALCVLGDREAGHTAEMTAAP PAQVPGPGGPTALRRPSSYLGL GVDEQNPMSSVDGDEDDVRVQ HQELRDCLIKHTILIRGEFVTRS LNIAQAADRRDAFVKGIYGALF LWIVKKINAIFTPPAQDPKNV RRAI/GLLDIFGFENFENRIIRT LCWRYREARC
14638	45006	C	14724	1	1032	
14639	45007	A	14725	1	4960	MSTTSIFQQLNLLSHSHKQKQ QIQLPNGRSRYSLMAAFRMQ YFLSLPMKSLILVGFERLQAIAR SQPLARQYQAMRQRTVQLQAL CRGYLVRQQVQAKRRRAVVVIQ AHGQGMARRNFQQRKANAP LVIPAEGQKSQGALPAKKRRSI YDVTVDTEMVEKVFGFLPAMI GGQEGQASPHFEDLESKTQKLL EVDLDTPVMAEPEEDVDGLA EYTFPKFAVTYFQKSASHTHIR RPLRYPLLYHEDDTCCLAA
14640	45008	A	14726	86	370	RTWMTHVWRRRRVQAAPTAY SSFRPGTSPCPAQPRAGARA*TR SGTSIMPTGFSSHTSCLTVPAFFT ASSAGQHRQRHRKTTAAGHPT TTGAASF
14641	45009	A	14727	3	455	MQSVLPAHGVSSTRASSRVTL SSPSTSTNCRGRKSSRVTLSPVG SGPGGGGGGPGSGRFGIDPPRK FAAAGSFSTGAPSSVMVVRVSG MPSLSW*QYP*SCSTLGCRRSS STISLSSLWA/VQPIAAPYPPELA TQLPISCR*SPSPCAPS

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14642	45010	A	14728	338	1782	NQLSK*KAHSIRT* TALQSSGR SQICIVQSSADALPSSRCTNPSSST FTPTPLPPRPHRTCTSLGCRSR SSSTISLSSLWAASR*QPLRTPN SRTQLPRSWPLKSTALSPPPPGQ ATRLCWWMVSSK*RTWMTHV WRRRRVQAAPTAYSSFRPGTSP CPAQPRAGARA*TRSGTSIMPT GFSSHTSCLTVPRLHCVCWTA SSTPQESSPGGWTRPWPSWRRRC CTCTGAGRYLQNSTAS/T/VPVS TSVSQTAPSPKEDYRCWPSYHH GSLPPFSVQPG*GCGMSVRAMP SVGPLWSPTRPPGQIKRQNYLL NYWSCWKMTLLAGIIPSS/TS RPADLDYFLGSSQCPRDERTLK GHVSCDPTSSISITGEKLKQKLE S/SSTLADTKSAFLQDSWT/SSLP TLGASAIURTSAS*TDQCPPAP GPLHVSE/SLNSTYPSRLCSSTCS TVDSFQIIMPN*MPFSTCGAFC WCLWFSAITALYFVM
14643	45011	A	14729	148	1040	WCTGSGFSKGTWEILLRKKPSL GNVGALPCVATACLTTVEKRA PRGHPLAPVLGDIKPCVGSMS STSEL/CTWGNFEFWGRNKYNH WF*WGWALLHQFKMGKAQG LQEASFYRKDTY*A/TMP*NPIG ISEFGTLALPGCKNVFERFMS RFELPGKAAAMTDNTNVNYVR YKGDYYLCTETNFMNKVDIET LEKTEKMWKPRFRGICPOLQG CSVTEQGFESDDAKSWALQH PKRPAQQDWAMSRGNQGWAN LGLKIIRGEAVTTAKEVSVVL KVLEVTDGKVVAREKKLRDSR
14644	45012	A	14730	189	507	AAGADTSQGGGGPPPSQSR PKSPSAGRKGSQLSPOQPKKGL PSPQGRKSPASSKATPQASEPV TTQLLGQPPQTQEEGSKAQGMR* PPQRLGASTQQQTNQEAA
14645	45013	A	14731	2	356	DGVSLSCHPGWSAVALRSQLTAT SASWAVCWQGCGETGILLPCW WECEKVQPLWKQYGRSLCEDH LNS*VQVILTTQPPILFKWLHL FTFPPTGQKDSSTFTLPTHCPG GRGCELSRHRCTPAWVTE



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14646	45014	A	14732	1	408	FFFFFYTTFFLFFYFYFFEMESH SVTQAGVQWYNLSSLPQPPPRF RRFCLSLSPSS*DYRCPPPHPAN FLCF**RQGFLLAKMVSIS*PH DPPTSASQSAGHVLTSKWELNI EYTWVIKMGTDATGEHKNGEG WE
14647	45015	C	14733	262	536	
14648	45016	A	14734	179	745	TDCLHNRCHRSPRSPPPGPPG*R SRADWRRGRGWGSWCASSR RVC*RCAPASAFSCCRSPRGRQ GRTFPPSPCAPD*TQ/PVSPGDS TRPCPPSPSPAHRAT/GCCGRR RLPGNASYLA SPGKEAGEFPAS QGDS*PGQYGYIGDSSS/RPTRG TWMKASTPRHPIAPQICGA*G FGEHQEVVPREK
14649	45017	B	14735	1	1164	
14650	45018	A	14736	35	542	VRPPSHVTADSGRSPLSLTYLPL QEPGDMAAAVPRAAFLSPLLPL LLGFLLLSAPHGGSGLHTKGAL PLDVTFTFY/KDYDGKLNMLSE KYKLDKESYPVFYLFDRDGFEN PVPYTGAVKVGAIQRLWKQGG VYLGMPGCLPVYDALPGEFIR ASGVEARQALLKQGQDN
14651	45019	A	14737	11	908	VRPPSHVTADSGRSPLSLTYLPL QEPGDMAAAVPRAAFLSPLLPL LLGFLLLSAPHGGSGLHTKGAL PLDVTFTFYKVIPKSKFVLVKF DTQYPYGEKQDEFKRLAENSA SSDDLLVAEVGISDYGDKLNLM NELSEKYKLDKESYPVFYLF EGDF/EEPSHYTGGS*RLGAIQ RWLKGKGVYLDGDLVCT V*LTWWSGFIRA/SGVKARQAL LKQGQDNLSSVKETQKKWAEQ YKIMGKILDQGEDFPASEMTR IARLIEKNKMSDGKKEELQKSL NILTAFQKKGA/EKEEL
14652	45020	A	14738	3	227	
14653	45021	A	14739	1	424	
14654	45022	A	14740	1	207	
14655	45023	A	14741	2	352	
14656	45024	A	14742	1	441	

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14657	45025	A	14743	1	461	MTVDYRKFNQVVTPTMAA/AVP DAVSLLLEQINTFPGTWYAAIDL ANAFSPVPVHEAHQKQFAFLPQ GYINFALCHNLIRRELDFFLL QDITLVHYIDDILLIGSSEQEVV NTDLLIHKRSKEAEHTAASRIR VSCLPEQKSHEQTLTPWEQVP
14658	45026	A	14744	1	928	
14659	45027	A	14745	283	1074	
14660	45028	A	14746	450	1970	VRVLSVPVEKELKLWKNTHKLL SYPTVGAAVTQLQNLAMGVI GSHGARGQVVALNRQRQGD QPFTRTVHVWGKGYDRFTWGL LDTGSELTLPDGPKHHCPPV KVGAYGGQVINGVLAQVQITV GPQTHPVVISPVPECIIGIDILSS WQNPHTGSLTGIMVGKAKWKQ LELPLPRKIVNQKPYCIPGGTVE ISATIKDLKDAGVVIITSLFNS PIWPVQKTDGSRMTVGYRRL NQVVTPTTAAAPDV/VVSLLE QINTSPGTWYAAIDLANAFSIP VHKPHQKQFAFSWQQQYAF VLPQGYINNPALCHNLIRNLD HFPLLQDITLVHYLNDIVLIGSA IKWVMHSS/DSIIKWKWHVHDR AQADPEGTS*PGYGHFWCPIC QQQRPTLSSQYDTIPWAISQLPG DRLIIGPLPLWKGGKFVFTGIDT YSGYGFAYPACNASAKTTIMES QNTLSTLMVFHTALPLTKALTS WLKKCSSGLMLMEFTGLTMFSI

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
14661	45029	A	14747	1	2589	MGPPYKPPTTWPPQTLTSHSTT PVKLQSLSLPPTAARGATEPCH LQAPASSVQOMTPPAPGLKHL GGKSQMCLEQDGRSGSVRGSP CHAGHWVAGAGFGKGTTRTW GHVNLIVPPNCPTASSAARDS APNQPLLGVVTAQIVPPTCPA MTVQELIAPLTPPAAGCRRGV RPFQTRVWLLAQLLRARLGPP GEGVVTCHSWRLERVAPRLAS LWWALAAETAARLDWAACKRP SAWGSIKAAEFSSKATPRLEGA SSRTLWVSYIAKETTTGKNGP VEPSHLWEAYCRATAPHPA VH SPSAEVTYTCGIVNLLQLGLVP KSHLEHTGCHVVVELIICSVV LPLISRLSDPDWIHLVLMVIFSK ARDPTPCASGPEQPSVPTSLPL IAEVQQLPEGRAPSPVAAPGFLS KQIQDALCALEGSQALEPKGGE GSEGVAEAGPGTETETVLPVST LNFCEPIQIDIAKEIEQGEVTT VTALLLEGLEKTCSSRPSCLEKD LTNDVTYLDPTIFSEPLSSPDG PVVIQNLHITGTITAQELSGTGL QPCTRYTVKCETSLDGENSSLQ QLAYHTVNHRVWEFLNLQ/SH QEKKPDL*KFIKNIEKMVVSAL VDNLKTAFCSESQGPTEELSE AETESKSQTEGKKARKSRLRFS SSKISPALS VTEAQDTILYCLQE GNVESKTLSSMGMESFIEKQTK
14662	45030	A	14748	478	3507	SKILRAVIWGSHLVRSAMKTET VPFQETPAGSSCHLNNLLSSR KLMAVGVLLGWLLVIHLLVNV WLLCLLSALLVVLGGWLGSSL AGVASGRLLHLERFIPLATCPPP EAERQLEREINRTIQMIJDFVL SWYRSVSQEPAFEEEMEAAMK GLVQELRRRRMSVMDSHAVAQS VLTLCGCHLQSYIAKEATAAGK NGPVPSHLWEAYCRATAPHP AVHSPSAEVTYTRGVVNLQ GLVPKPHLETRTGRHV
14663	45031	A	14749	1	417	
14664	45032	A	14750	34	350	RERGQEGGVAGRVEMDVSVVE RGAYADQIWGRPKGGESRGEK RKGRWVQRVRLARVTPAGL GECKWGRGRGD*VRRVKPRAL REKWDGSTVSDSTPMKPGLE

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
14665	45033	A	14751	1	1604	MASKRCIRDFRSRGGKLSFQL YATFRKEGCGPVLANGNPGGG RGQEVSATQDLRRGWGIASSAS RFPWRQSWPGRPRLGNYDSGA PGEAKMPKSGKDKKKGKSKGK DTKKLIKTDSEVVDRAKANASL WEARLEVTELSRIKYRDTSRIL AKSNEDLKKKQCKMEKDIMS LSYLKKQDQEKDNMIEKIKQQ LNETKEKAQEEKDKLEQKYTR QINELEGGFHQKAKEIGMIHTE LKAVRQFQKRKIQVERELDDEI NDLLVKEKIMQLVQORSQIQTL QKKVVNLETALSYMTKEFESE VLKLQQHAMIENQAGQVEIDK LQHLLQMKDREMNRVKKLAK NILDERTEVERFFLDALHQQVKQ QILISRKHYKQIAQAANLKMRL EHVQEEQNIPKSEHLMMAESTAP V*IRIFWRPKNGHILKEMWILEI *PGSRKKYCDCLQK*MAVLL GNTTQSSRPSSSRMTLFLDSGET KEFGDESKLDKIFITQQAISD VFW*SGATHYSKRTSGV*HSGK SESLQPRGQRLI
14666	45034	A	14752	95	473	
14667	45035	A	14753	168	449	

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14668	45036	A	14754	1	2000	MAFEQAKQVVKLALDLWPGD GPVELQVTVLDQHANWSLRQE QHKGKRGPLQFTDVAIEFSLLEW HCLDTAQRNLYRNVMLENYRH LVFLGIVLSKPELITCLEQGKKP LTVKRHEMIKPPGQKNWEKQ ALPLTGCLTKYPSWAKNIDHVT CSHFARDLWPEQSIKDSFQKVT LRRYENYGHDLQFKKGCEV DECKVHKRGYNGLNQYLTTTQ SKIFQCDKYVKVIHKFNSNRH KIRHTGKKPFKCECGKAFNQS STLTHKKIHTGEKPFKCECG KAFNWSSHLTTHKRIHTGEKRY KCEDCGKAFSRFSYLAHKIIHS GEKPYKCEECGKAFKRSSLTT HKIHTGEKPYKCEECGKAFKR SSILTAHKIIHSGEKPYKCEECG KAFKHPSVLTHKRIHTGEKPY KCEECGRAFKYFSSLTTHKIIHS GEKPYKCEECGKAFNWSSHLT THKRIHTGEKPYKCEECG/KGF KYSSSLTTHKIIHTGQQPFKCEE CGKAFKCFSLTTHKRIHTGEKP YKCEECGKAFNWSSHLTAHKRI HTGEKPYKCERCCKAFKRSFIL TRHKRIHTGEKPYKCEECGKGF KCPSTLTTHKTLIEIHAGKKPNK *E/ECSKAFKDTALTRHKIIRTG EKPCEFDECRKAFNQLSTFTKY
14669	45037	B	14755	269	1131	
14670	45038	A	14756	2	149	ALFRAGRQECLSLKLCPPQPL SPTCFVPGR*GFYLHFFQRCAA QRGGI
14671	45039	A	14757	2	175	

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14672	45040	A	14758	1523	2667	PLLVIHRQTGSGEDIQQTPADL QQRDLERKLTNRNE*HQHQQ KRHPLKNPTQMS/CIKDQRYIN PRSTIKLELGIKKLTENCCTTTWK LNNLLNDCWEKQERSKTDLT TSQLKELEKPEKTSKASRRQEI TKIRAEKKEIGTRKTLQKINKCG SWFFEKINKIDRSARLKKKKRE KNQIDTIKNDEADITTDPMIEQT TNREYKHLANKLENLEEMD KFLDTYTLPRLNQEEVESLNRPI TSSEIEAVINSLPT/KKRSPPGSDR FTAEFYQRYKEELVPFLLKLFQ TIEKEGLLPNSFYEDSIIILPKPG RDTTKKENFRPISLMNIDAKILN KILANRIQQHIKKLIHNNQIDFIP GMOGWFNHKSINVIRHLNR
14673	45041	A	14759	640	1771	APVARMTA/PLFYTALLVFSAL GNILALCLTCQ/KRRKINCTGIY LVHLAVSDLLFTVALPGRVVC YVLGSSWPFKGKGLCRLTAFVL YTDYGGVYLMACVSVVDHYPT VVCAHWGPCLRTAGRARLVC VAIWTLVLLQTMPLLLMPMTK PLVGKLACMEYSSMESVLGLPL MVLVAFAIGFCGPVGIILSCYM KITWKLCASTAGRTQ*PAGKDTT GGASPPGSPDQPEKTPPAGAAQ EDPVTPTRETPPAGQPERTQ*PA GKDATGGTAREDPVTSRKGRH WRGCLLTLLMLVAVVVCFSY HLNIKQFMARGMLHLPSCAER RAFLSLQATVALMNMNCGI/D PIHYFFASTHYRKWLLGILKLKG SSSSSSSSSTLY
14674	45042	A	14760	1	401	MVLVQWLTATSAFWETQNK SLQFEDK WDFMRPIVLKLLRQE SVTKQQWFDLFLSGATLQDSSG PLLTGKLKKKRKVSGETKY/IEAS SATSLKATTDTHLLLYNPFWI PLTLI*HLCWLQRF*SCDTPDP P
14675	45043	A	14761	184	2720	
14676	45044	A	14762	34	251	
14677	45045	A	14763	2	452	LQIEI*ALEELAAKEKANEDAV PVCLAADFSPAGMGSSCDGQE DELDIKSRAAYNVTLL/NFMDP PKIPHLKEKPYFGMRKMAVRW HHAENLVDRPQEESEDDSHLE GRDLDTWHVGVKISWDVKTTPG LATPQGDYCFMLGNLWRTKIL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 5,410,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
14678	45046	A	14764	1	1701	MPFKCKKQHTFNKTSPEGAII FTHGCLCTSPFNSELSHLGNL KLSSWEHLHRRSQQTLSVRLH VPTQPQVEHEFIQLIYIHTGAKL QASKVIIATKDGKRRKSPLWQL KYPKLILREASSVSEELHKEVQ EAFLLTHKHGCLFRDLVRIQGG DLLTPVSRILIGNPGCTYKYLNT QLFTGPFVPKGSNIKHTA*IA AVCETFLKLNLDYLIQETIQAEE LAAKEKANEDAVPLCMSADFP RVGMGSSYNGQDEVDIKSRAA YNNVTLLNFMDFQKMPYLKEEP YFGMGKMAVSWHHDENLVD RIQLQLWDPVDGTTASSAVPKQ GRDKRREVPNTLSQPNSEQGLI SAFHSRCVHAVFYKLTSAPKTT SLPDVPSDLLAEGLAASRAGQA LWRCDDKSLTLVRKJNLQKG RDGGRSATNQSQPHLDNTGL ERQLEQKVGRCRSPWRGLGHL EGNAQKGHLLHGVNKNQGHL LRRHGV SIRAGRAPHLAAADT APGRISCLGHSEALKPRIQAGGL GAESIWWQLWEGGSNSSVFGR HDEEPAALPLPGKQASGGHMH
14679	45047	B	14765	16	1462	
14680	45048	A	14766	89	566	MEQGSIIQAWREDALVLTQK GLVSKISSPKRPHVCHILK\APFC CSCTQHVGQSSSPR*ANPHIRRE STPIAMSDQLQRLQYQFYQIPG TCLLPEVTEKNQGRICMVTDL ETLVHSSFKPISNADCLVPVELE GTMHQIHVLMRPMYDFEFL*M EEMF
14681	45049	A	14767	1	305	LSGLEMFQAGAGAPSSPGY*GS CWAISWSGPPDKHSNRGASCG LETWAGAAATDTAGHPHAAAGR C*A*AGSGGDQGTGSTAPLPAT P*PLQSLV*AAALPA

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14682	45050	A	14768	1070	2653	SLKPCMACL*HS*EKTLSDDSG RSWICAVSPGSPGPAAPLPEL SFPLRPGYTKLLPHATEEVSFPG SGAGRKLGPMPLPSTAELCPGTR ARWSEGYRDLGRQAQDLQAG RKS VVTWALEGHPREERAAA KVQQCQRMWEGCSDPQELIPR PGRNPDVPDSAVALLPWGPSR VPDLGPDSEHR/PAHSRVQYWL HKAPAPPSPPQLAEPATPPTRP SSPGSRSPSSWHRLRSWSLNAD PWRPRPADLPPGNPAPPSRGGA HGTWGGKDVRLGRGSRFSV CGRREVQRAARRV GTTGPWGR APGREERAASR*QPPGTG/PASP MGRASSSGSRVSPGPIRRAPW EGCSCRSRHHWGKGLGPPDGE PG/PGSS*VAQPTVGGRRSLGPG GAAPARDAAAATPPGDAARE GSGRHLRAPASRPQHQRSPRS HPPASATTASLQKFRSASSEPPS EDRPFDFSPATAPQCPRVAPSAG AR*R/AGGRLPE/PR/RPGPWGG GSRTNLTIPSTLHGPTAAARTS PHRKS
14683	45051	A	14769	748	1073	SQHFGPRWVDRLRSGVRDQP GQHDKTFSLLEMQKIAGRAGG CL*SQLLRRLRQENPLNPGGGG CSELRGLCTSVWATGRDSI*K KKKKKKKKRPWSLLSLIVLVQF
14684	45052	B	14770	59	466	
14685	45053	A	14771	2	3184	HRTGIPGSTISSPGGETVPE/MTA AMRERFDRFLHEKNCMSDLA KLEAKTGVNRSFIAL/GVIGLVA LVLVVGYGASLPLQLLGFY PAIYISIKAI/SPNKEDDTQW/ V*TYWVWVYGVFSIAE/FFSDIF LSW/FPF*LHG*KCGFLVGCN GPEAPSKWGLKLL*QAASSGPF LSLEATKSQIGQVLVKDALKDQ GPKETADAIH*KPKKSLP*ILL G*KKKK
14686	45054	A	14772	14	455	PQFPCRRFRALSEEELDNEDYY SLLNVRREASSEELKAAYRRLC MLYHPDKHRVPELKSQAERLF NLVHQAYEIVVERRTPAEIRE EFERLQREEREERLQQRTPNPKG TISVGVDATDLFDYDEEDYEDV SGSSFPQIEINKMHISQ
14687	45055	A	14773	328	479	



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14688	45056	A	14774	15	1095	KVAKMALASEEELDNEYYS LLNVRREASSEELKAA YRRLC MLYHPDKHRDPELKSQAERLF NLVHQAYEVLSDPQTRAIYDIY GKRGLEMEGWEVVERRRTPA\ EIREEFERLLREREERRLQQRN PKGTISVGVDATDLFDYDEEY EDVSGSSFPQIEINKMHISQSIEA PLTATDTAILSGSLSTQNGNGG GSINFALRRVTSAGWGGELEFG AGDLQGPLFGLKLFRLNLTPRCF VTTNCALQFSSRGIRPGLTTVL ARNLDKNTVGYLQWHCSSPLL QVQRPHRNTRACAPESFRPFL HVPTWDAECSGARTPSTAWTS AAVKLREACLSGPGSGSHQLLL LTPRSKRRTGGG
14689	45057	B	14775	508	1765	
14690	45058	A	14776	2	639	GRRRHRRRRHDCSRGDCYLPT GTNTQQPLPPPREPLPELPARTP DLSMQNSEGGADSPASVALRPS AAAPPVPASPQRVLVQAASSNP KGAQMQPISLPRVQQVPQQVQ PVQHVYPAQVQYVEGGDAVY TNGAIRTAYTYNPEPQMYAPSS TASYFEAPGGAQVTVAAS/SPF AVPFHSMVGITMDVGGSPIVFS AGAYLIHGGMDRPELLANL

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 59/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *-Stop codon, /-possible nucleotide deletion, \-possible nucleotide insertion)
14691	45059	A	14777	1	2091	MKPPDDNSTQNEGGQSFEERHE TLQRVKFRGPKTAPGRKLIAF LGQMNSGTSGGQVRVPGEEELM AGGATCLPNTAEHQPIRMKNL HTPAFRLCPLTLQDNEADAFW HQAQVDWGMPTGKKPQTLGLT YKTHDLSMQNS/EGGADSPAS VALRPSAA/APPVPASPQMLPLE LVILGVV/PLDKCIPAQWSKEG QTNSYTYNPEPQMYAPSST/AS YFEAPGGAQ/MVGITMDV/GGS PIVSSAGAYLIHGG/MDSTRHSL AHTSRSSPARSFRNSKAPSSRK FCC*LPTLSSKTL/SLFSKNLLRK LPLGKIISPDSVQWPWYIGLLV AGSESLASLLFPKASSSETLGF ATGQLAGESRLPSLLAFILVPID VAVGKEQLVTQTTVYRVQGS GQHLNKAWQEPALVNICGMGE KVDVQVGLCQHRAHLDGWNS SRAASVWPGETLTHHQDQCQA NLPGIETISILGTGARYYSPQE QGGGRVWLERLDPRG/AVSGT DL*CLPQSDVPPGRA*SGGTGD KSISTHDKSGRGNSKYHY/YGIR LKPDSPLNRLQED/TQYMAMR QQPMHQKPRWCRAELGGAGSP L/GMEDVSHVPEFPAPD/LGSF LLQDGVTLHDVKAL/QLVYRR HC/EDVV/MNLQFHYIEKLWLS FWN/SKASSSDGPTSLPASDED EGAVL/P/KDKLISLCQCDPILRW
14692	45060	A	14778	94	3006	RTRSLTRKAMAEHAPRRCCGL WDFSTQQVKVVAVDAELNVFY EESVHFDRDLPEFGHVLVDVHG VHVHKDGLTVTSPVLMWVQA LDHLEKMKASGFESQVLALSG AGQQHGSYIWKAGAQQALTSL SPDLRLHQLQDCFSISDCPVW MDSSTTAQCRQLEAAVGAQA LSCLTGSRAYEFNLVCDRKHLK DTTQSVFMAGLLVGLTLMFGPL CDRIGRKATILAQLLLTLIGLA TAFVPSFELYMALRFA/GL

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14693	45061	A	14779	1	710	MGPAAGAPTSRASRGPRAPALR AAVGRRCPRPEMPCQCHPLAR CGLDPAWTQLPQETAGAPRQD PRCTNQLICEHLPLEGLGFYGL GNKDSLRLHVKVVAVDALNVF YEESVHFDRDLPEFGGLASSAV TQSSS/DDLQQVP*SLQSLHAA* SLQTNASPFTFEHSFLGKRHPK GAGQKRAESPTRPPLRLQEAAAP GELQRPLPYGTQVPAGLCPSVS GLRLRARALLPYRTHSLSV
14694	45062	B	14780	1	252	
14695	45063	A	14781	73	198	
14696	45064	A	14782	762	1080	AGRAEMQQRRESHEEAKDPSP LSPREGSQKQQNVNTSTPSHC PR/PPLRMPPPAPRRPV/CDHPR AECEKRAQHWQAAPAAPVR DPLGEASWAPESGGDVESLYI
14697	45065	A	14783	1	309	MTKTEREQNEQLDGGGYGERL GEYSLFLLCVPELNLQNGKICERV SSYFGMNLSSVLLKLPFPPTRE SWPPPHFTGTPHNHHGGVNSNG ALGCAQRCSLHHIATNAGGWER GGVNSNRLFFLLSASFSDAKIK PAPSPIDHLRAEEC*/PPPLSQPP ALVAWCREHLWAHPKAPLLTP
14698	45066	B	14784	1	471	
14699	45067	B	14785	1	1143	
14700	45068	A	14786	1992	2205	WRSMGLRKRQLASQISYCP WS/CP*EESHCRRVSPAPLA*LL SPCPAPQQRSHDTPPPFFKHFP LPFSG
14701	45069	B	14787	389	973	
14702	45070	A	14788	287	525	TNPFNLLQH*KKP*CYTYISITD PTDACHKNKAFSSPAVSQLT/CI FSSTAGSFFVLGSHSCGHVAFS LWPRSPQLPGTR
14703	45071	A	14789	475	616	
14704	45072	A	14790	1	704	MTKWKSNPQHIMELQRTLSNP NNLEKSNVKTYYKAKIFDDNLI QLTFQQHRQDRDTEQEKKEE EREKRKQQQEPLRKKAKMQTV RPGFDLTQGPNCILTPHGKTWSR LPPKNHRRPYSRPEGPRVKA* NHGPEGRRGTRLPPAAKRAQ AEEAAQ*WPTSTRLRLVTPRA MPPSPSEDPVAVGHPAPPRGP RSDS/APLRPQLRPRLSLASE PAAAGNARGHRSVLALY

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14705	45073	A	14791	200	408	SPHLMISINLITFANFLFPCERNS QFLKS/SIFVMWMIHNGMKCRQ LDTCHCRHGTCKDSICPGLEES PLP
14706	45074	A	14792	240	771	GRGMQSPAQVDPAAKRGNIAG HTAHLWPKGGTLP LCF/YHLII MQIREQP*SSLEYPTF/RILSLVS GTKLNKILANRIRQHIKKLIHHN QVGFIPGMQGGLP TPGSEQGHL RVSPSSPSTVTLKLFNFMEPFE NLNL SKGKASVHTITQENTDSL KVQSGQFSQGHEKRTLDLKV S
14707	45075	B	14793	1	1557	
14708	45076	A	14794	150	1668	ESDARQGPFFLENT RPHPSCMQ NHGICRSLHPGLCGCPPTARDA APATAGGVPAY/GPLTGAPPG* LPGAGIGSKQSS TMGSPGAGSC LGL*APSQPAD/PGSIQGVLVIA DTE*PLVGGDGGLEAEHQWQ* EAGP/GGLIPKHMNPQSRQQSLF GRRGYRDSSLRSVLGRTGQQT* HAELGAGVMGPGNGR*GH/G PRGLPCLVQGRRGPGVA AVAA GVSVA VPSGMLSENGPGCSK/P HSGDAGQRRGLREN L*GVRALI WGAASSFLLTEQDLQELADCL HSGRKTCCFFYFQGRGDVAPGPV APAHHRLAGISTVVP EGPGLCV GEDRQLPG/GNQRAEPPP*LVRS VSSLTGLPALGPRQMPNAGAG NGSGK*RGVRGSGPDWDCTGT HGGAGTGKLLWAGLSLFFPLSG KSEAHQRAAGHGYGRGLGSP GRPPRSRKGRVLGSESA PA*GSP QPLRSARQPESSCP RQQQPVG RGPAGPLEAGHCSFPRPLGP AR SLHPDFPQGLQA
14709	45077	A	14795	3	374	RRPPSWG*RGCSQLPECAADGS LEDHGLPPMVSCFSRHPAGRF LRVFPPSPLLA VDCCWHNNSYV VAVDCCSATCSLLLYPSQEFPP HKFLVYLVLSWHQLLGGLELIC TQQPVNPVVS DG

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14710	45078	A	14796	73	890	MSLVRTDGKVSFPHSRAASSPP PRFAGSLPWTPKKGHGFTSFPR EGYCP/REGPSDWGRNSFRVSS WAWRPSQGVSHHTPGQGP/PSP GNRDK*VATRKSPGQPGSSPEP GWSLQSTSSPGATRTKGNLNTL KG*KQVVD*WVGVTGWEGS GAPQSPQPSREWLSRPGVGVV KETWSPSPWSGR*APPCGQPQG QQTHMERGGR*G*QVGACGLG P*GQWSSVTNGKDTAPWSPPP RQRNGRWPAPPPFTFHYYYYY YYYYYYYYFFFFGE
14711	45079	A	14797	273	678	TEESTSVLSVPNQTGAGAAIRGI VSLRLCGLYVTSPRAARMHIR PHGPWPGGSHHENGEGAPES/E GAPASASGRGAPEGQAWPPRD AVLSSLMLALFRTKSARHLVLG TRQTAASPFFFSQPSWYCSLG VDGG
14712	45080	A	14798	551	743	PTRITRSAGSSSWGSCRPRAPAP FSWSRPLCQGPRG*CRGLHSRF YAAP*VQGHVPVHILPYSKFRRG RAALRPRGQWGLDSVLGTAVC GCGP/RSESDICSGR*GPE/WYIS PPVPPHVHRGFQQLNCARQVG KGGGGPGCPMLGNHSSQVGL GLGGQDQDSLESPGRVSSPSGP SAASDPGG*GFQGNPDVHPAP APPDW

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14713	45081	A	14799	705	2299	KREWRPRHHPLGPPPRCAGRSA PLSGPASPPS*WLPFGHGPCGR MCSRAARGGDVTYRTHNTRAP SCPSLHWVGERG*DAHTRTPSC PSLHWVGERG*DAHTRTPSCPS LHWVGERG*/GCPHSLQLSFP PRSAGCCKALFEAEKSKGDTGL GKRGWAGGGAGGAARPCICNP TVPCPQSTQSPPV/PPGTR*QLG SSASHSRAASSPPRFAGSLPWT PKGHGFTSFPR/RGBVLPFPEGP SDWGRNSFR/GPAGPSMW*PAP PSDAQVGHGPRAGLQRCRGR GGHTPFVAAAAIDSAYFS*/D P*VFGSNFPHLSCFP/GCGEGN Q*ARRRPLAGAAALPGPNLES WVCELSVAGPAVWDPVPSP/GD PTTGPEP/RNSAGACGAQGS R*T*GTPATWSL/GPPPELPGSR HQRQCECGPAHVQREMPGW ACMLKSVAQRGFQRR*QLSKA QAAAWRV/PGGR/GAGKD*GW RRWGVSRGGGGLCCARGGGGS SVRRGEVEGS/GCARGGGGCAG WRALSPSSLPSGAQELGS
14714	45082	A	14800	1	267	CSAGGPWRAPQPRRFHRRRP AQLPPLPLPPLPASPRIHNRFT PRPSQRTPPPAALGCPEPGS/RS QGRGHARPPGSGEGDPTVSSPG
14715	45083	A	14801	218	430	
14716	45084	A	14802	9	201	
14717	45085	A	14803	1453	1936	EVEKHLCCQ*ELLRAQH*AA ACRRPRPPAPGPQCSAGGPMAR APAPQVPPPPPPCSA/PPPLPLP LPAS/HAHPQPHFRHGRSALLP RPPWAVRSRGALAGPRTRAA GLRGAGAAAPADARFPASSP AE*PKFPQNSARALTGFPRCTD PTVSSPGY
14718	45086	A	14804	1	580	TSGCSHSLHKPAGVSTRPTVA SICAPRPTSLRRGLTLWPF GGHLTLLET/PGFDSCEVEEGP RFSTFKTS*ARGRRQRCA RREVGPSSAAESGRARGEP RLLCRGK/DQPRAGEGAAAA GTPEGSRAAGSSEGALPSAAS PGNSSGRSRPEAGANPKGAPRR CWWGEPGGRRLFPDE

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14719	45087	A	14805	279	1148	ALHEFAMSRSLHASLH*S**STC P*QQPAPAPAGEPRARFPKGSSS ASSGPG/WPRNNGKQLHLPAPQ Q/QQGRISPRVAGSGCTGRA LLLAAGLQNSTRSLNPRDPPTIL SHRPLQGM/PDAP/RGCSHSLHK P/SRS/TPLSGQL*PPSAPHAPQ APSVAGPLPCGLSPGDT*RYWR LLRFDSCPEEVEGPRSTFKTS* ARGGWRQSRVWASARGASTL QASVQGR*NPQPRAGEGEEAA GTPEGSRAGASGSEGALPSAAS PGNSSGRSRPEAGANPKGAPRR FLGGCLL
14720	45088	A	14806	765	4270	SQDTPGDLQCHGDDL*DGAVLS EAPGGERVPRDD*GGVCEGVP HVSLRLDSVAEALQPRGEAGG DQVPEAHARPPSAQR*PAGAGL RLHPPAAGGVPGQSGGHLPKIQ DDLTSKS*TNSTKTLFPNKVTL SDSGRA*ILEGHRSTQGSLGLEA DPGTVSHHQPCPPNAAATHFF HRTARPGVQQGPGPASVQQPES DGDGALLRSPCSLLPQGADEVL LQPDGDKQGGPRGDSSESD*G YSERR*AQDEYQGH
14721	45089	B	14807	133	2943	
14722	45090	A	14808	1	814	MEEELLRELLYSENWWSIPYND TIQELCCWAVLKRTFINGNTSR KPGMKMVTGLKKQERRSKQW GCEKEAKFVPMWVILEVGR EERGIDGKRWGKSCSVESQSVW AFQNPWSKAQTLNLSMK/AYE KGKEGVEEKFEARRSWFMRKK AISHLHNMEMQGEAASADVEA AVSYPEDLAKIHDESDYTKQWIS NVDKTVFYWKMPSTRFIATE EKSMPGFKASKDSLTPLLGTNA AGGF*LKPLTTYHSQTSRALKN YAKLTLLMLYKWNK
14723	45091	A	14809	123	515	PKQSAKTIWTSARPEDVVTCS FKEEFLPGNTHHDFSINKRSDPE LEVSRPLARPENFPANRSHSLE L/RPCRGRWAAHWTCSSLLD ASSAPRTDQPSLWRNLPTASLG GPWSHNQPGIVFQNTYLMKWP

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14724	45092	A	14810	279	1136	VDDVLCACVRGLLSCDEFLSW LALNRTVLATPALPSCLSQMAS SLPGLCARTRRGERADSQRGTC AFFSPARTASQAPLVASSVRKQ RVWAPNPLNCHTLPPSRGSQRG GYIGEEGVFGSRVVGIVVPGPN GSPWPLGVQR/PECVLLGVGSG S/SSHELFSEADFISRLLAAPSPSP APAS/MGNAIEFEAPELGPLGRV FVDDFHYDYNFIHLHEDLCYGP LEGPDLDLAGTGDRTPPLHSRP RASLSPSALRCP*ALGF/WTLA WGSPNSSSRVPEAQPPAPSLAE
14725	45093	A	14811	1	1597	GGRKAAVGVETRPQGSQAQPTW LPVHGDCTCTLLPCRAWWRL GGLPWAASVVGAKCVWTPPER GLLMLHKPMFGWSSGYRVVLP AVAFFRLRAQVTKLGEVSLRF LKREAKLCGFLQKSFLALEKR MKASESSRLKLEGSRLGELES WEKLRGLMEERLALQGQHEE SHLLEQCQGLDAAVAQLTKFV QQNQASLNRVLLAEKAWDA KGRLEESRAGELAAVQENLE AAQLAGELARQEMHGELVLLR
14726	45094	A	14812	150	1625	CLGKAFSCRELNAYLRLPTFFIV FSLRQPSLRMHSAWVVKTCGA MPCSCCRRHCSSVTDMAVRSL ALLQLVNRTPLRRRQISAACQR MSTFLFFRACTF*PRNRSSGRH /DLTARPRQAILRQNFK/RAQS RNLTA PNSPR**LLVKTYRQTS RPVSAAH*CPR*RGRAALAAAC HSGSPGARQTAGPAEGPAR*T RRDFL**RAACLRRRWKWP*L *RSRSSP*SQGSCPPALPAPRR CSAGSRTGPAARWCRAGAGSR RHAGSSA***SRR*GRSASGRR PRHGGTAGSGRWLWWARCPA *AGIPWSPWCHSSWP/PQSVRV VSSG*RASLHSPGLDSSGGGLQ SFLLVQLPAQKKTSSQP/RHAA APSAACPHAE*CTLGSCPRSA TLSPTPPRASPPAG/RSVSPCPP GHEGVLVISKHLLLSRSRGRG LGGNVVRPCSVQPMGVBQEL AVADRDQLPCLVCQDGECLPK ASGRPVLGCP



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14727	45095	A	14813	921	1446	ACCISHGNLWHHLDDQKHGLQS *GEKSRLFSRPNLQVPVHTGLD HRARYLTGPRKQGHLLWPTGPS SVFDNENFCKLSVGM*TRGRASA RQQIQSPFAESGKAFFDICSVSL RLCVLPHPWNSRLRSPALRNSL KYSVTSSAAARRKLLPLASGPL RLGPRSLPTRLQVLRWEKVASA
14728	45096	A	14814	1	675	
14729	45097	A	14815	1	2341	MASDLVNRCEACDLPGQPISVH QFPRLSNEVTTTVGRNSESPNQ RSVSGPWTPEVRRGVAAAH GFSGQNAKWAHIPATAMSF LPYSLVHSPHALTTPLNPGDA VTMPSTSTVSAANASKGRSFS QCFQSTEEGQERRRPRTSQAKV QQGSTAGKYNELITLAGHIKSQ APHGKRKPPRDSHVICSMLRK RKPDETPSPSSDAQFSGMLAVA VSSLLCPRSSPSQWCHCSPSTT ILGSSDVSDTSFQPSTKLGPVHG FPPQSRDCILDFELIRKVTGAWS SLTAGSWETKIQEFSEEDILAPH RITPGPHSSKSPVHFLASLWGR KTKLYHHTIQDKEPRSVPEAGS SGRRDGGGAHSMCLMAPEPD HPGSPNCRSPATLHADADGN LQREAAKCGDGTQVSTHVDH TSAPRQAETGPA TGENEK MESH GRSKRGLVGADQCPAETLDSY TLLVGHKKRDKDRQTPGPAPQ VNSFVPENYLLRGLAPLGS AIS MKTAGA VHIRPSGDLGRAPAP AVRPRPRPRPRRLLPGPAHL GAPRPPAPAPLSRRAARQSPAA AAAPPPGCE/RRG/PAGPASGAG PPAPAHGARPGGKPAANPPRAP QP*P/RRRRSRRAQPRPGPAPL SRMRAEGPARALRPPPHYQPEL GPPSETVGPVTELLAPIPTARFP TRSHYPVVTASPARSS*TSGLD*
14730	45098	A	14816	44	455	HLNRNR/PSQITPHIYNHLIFDK /PLFINIWWENWLAICRKLKLD PFLTPTYTKINSRWIKD*NIRPKSI KNLEENLGNTIQHLG/IGKDFM TKTPKAMATKAKIDIWDLIKLK SFCTAKETIIRVNRLPT*WEKIF AIYP

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14731	45099	A	14817	1	279	IQDIGMGKDFMTKTPKAMATK AFIDKWDLIQLKSFCTLKEITIR VNRQTTENYPSPDKGLISRMLP NF*RLFPAS*KKPPLFDIGKTEK TNY
14732	45100	B	14818	1	2025	
14733	45101	B	14819	1	3570	
14734	45102	B	14820	1	1380	
14735	45103	A	14821	1391	2742	KKRESSLTHVMRPASF*YQSQA ETQKKRILDQYP**TLMQKSSI K/YLAKRIQQHIKKLIHHDQVGF IPGMQGWFNIRKSINVIQHINRA KDKNHMIIISIDAEKAFDKIQQPF MLKTLNKELEETTvkfiwnq KRAHIAKSILSQKNKAGGITLR DFKLYYKATVTKTAWYWYQN RDIDQWNRTEPSEITLHIYNYLI FDKPEKNKQWGTDSL FNKWC WENWLAICRKLKLDPFLTPYTK INSRWIKDLNVRPKTIKLEENL GITIQDIGMGKDFMSKTPKAMA TKAKIDKWDLIKLSFCTAKET TIRVNRQPTKWEKIFTYSSDK GLISRIYNELKQIYKKKTNNPIK KWAKDMNRHFSEEDIYA AKKH MKKCSSSLAIREMQIKTTMRYH LTPVRMAI IKKSGNNRHAPFSIH THIMFGSLYLQIKDLSILGFW YPRGILEPT

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14736	45104	A	14822	1	1698	MEDEMNMKQEGKFREKRIKR NEQSLQEIWDDYVKRPNRLIGV PESDGENGTKLENTLQDIIQENF PNLARQTNIQIEIQRMPPQRYSS RRATPRHIIVRFTKVMKEKMS RAAREKEIQTTIREYYKHL YAN KLENLEEMDKFLDTCTLPRLNQ EEVESLNRTVTGSEIVAIINSLPT KKSPGPDGFTAIFYQRQSESI MSEFPPTIASKRIKYLGIQLTRD VKDLFKENYKPLLNEIKEDTKK WKNIPCSWVGRINIVKMAILPK VIYTFNAIPIKLPMTIFFTELEKTT FKFIWNQKRAHVAKSILSQKNK AGGITLPDFKLYYKATVTKTA WYWYQNRDIDQWNRTEPSEIM LHIYSYLIFDKPEKNKQWGKDS LFNKWCWENWLAICRKLKLDLP FLTPYTKINSRWIKDLNIRPKTIE TLEENLGITIQDIGMGKDFMSK TSKAMSTKAKIDKWDLIKLSKF CTAKETTIVNRPQTKWEKIFA TYSSDKGLISRIYNELKQIYKKK YTNNPIKKWVKDMNRHFSKEDI YAAKRHMKKCSSLAIREMQIK TTMRYHLTPV
14737	45105	B	14823	91	1596	
14738	45106	A	14824	1	2757	

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14739	45107	A	14825	1	2677	MGKKQSGKGTGNSKKQSA PPP KEHSSSPAMEQSWMENDFDEI NKIDRLRLARLIKKKGEKNQIDT TKNDIGDITTPTEIQTITREYY KHLTYTNKLENLEEMDKFLDTY TLPTINQEEIESLNRTITGSEILAI INSLPTKKSPGPDGFTAIFYQRY KEELVPFLLKLFSQIEKEGILLN SFYEASIIIPKPGRDTTKKENFR PISLMNIDAKIFNKILANRIQQHI KKLIHHDQVGFIPGMQGWFNIR KSNVQHVNRTKDKNRMISID AEKAFDKIQQPFMLKTLNKLGI DGYLKIIRAIYDKHTANIILNG QKLEAFPLKTGTGQCPLSPLL FNIVLEVLARAIQEKEIKGIQL GKEEVKLSLFADDMMIYLENPV SAQNLLKLISNFSKVSRYKISVQ IPQAFLYTNNRQTESQIMSELPF TIASKRIKYLGIQLTRDVKDLFK ENYKPLLNEIKEDTKKWKNI PCSWAGRINIVKMAILPKNWKKT TLKFIWNQKRARIKSIKSNQKN KAGGITLPDFKLYYKATATKTA WYWYQNRDLQWNRTEPSEIT PHIYNYLIFDKPDKNKQWGKDS LFNKWCWENWLAICRKLKLD PFLTPYTKINSRWIKDLNIRPKTI KTLLENLGITQDIGMGKDFMS KTPKAMATKAKIDKWDLIKQE SFCTAKETTIRVNRQPTKWEKIF ATYSSDKGLISRIYSELKQIYKK
14740	45108	B	14826	1	1186	
14741	45109	A	14827	1	2304	
14742	45110	B	14828	1	2995	
14743	45111	A	14829	1	3095	
14744	45112	A	14830	1	3654	
14745	45113	A	14831	1	3189	
14746	45114	A	14832	1	2064	
14747	45115	B	14833	1	3031	
14748	45116	A	14834	1	3192	

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14749	45117	A	14835	1	3210	MVKGSIQQEELTILNIYAPNTG ALRFIKQVLRLDQLRDLDSHTIIM GDFHTPLSTLDRSTRQKVNKDI QELNSALHQEDLIDYRTLHPKS TEYTFSAAPHHTYSKIDHIVGSK ALLSKCKRTEIHTNCLSDHSAIK LELRINKLTQNRSTTWKLNLL LNDYVWHNEMKAIEKMFFETN ENKDDTTYQNLWDTFKAVCRGK FIALNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQETKIR AELKEIETQ
14750	45118	A	14836	1	3144	
14751	45119	A	14837	113	1336	PTLAGTGNETSHLGFNAIPIKL RMTFFTEL/EKTTLKFIWNQKR ARITKSILSQKNKAGGITLPDFK LYYKAIVTKTVWYQYQNRDID QWNRTEPSEIMPHIYNYLIFDKP DKNKKWGKDSLFFNKWCWEN WLAIRKRLKLDPLTSYTKINS RWIKDLNVRPKTIKLTLEENLGN TIQDIGMGKDFMSKTPKAMAT KDKIDKWDLIELKSFCTAKETI RVNRQPTWEKIFATYSSDKGL ISRIYNELQIYKKKTNNPIKKW VKDMNRHFSKEDIYAAKRHMK KRSSSLAIREMQIKATMRYHILT PVRMAIHKSGNSSRSNIVHSVT QANALESSWIPFLPHIQYISKP QASSFKMYHVTDPILPPSSQHL DQAAIINLCLQWPLLWFECMCP SKIHMLKLTPQ
14752	45120	B	14838	1	3127	
14753	45121	A	14839	1	2742	
14754	45122	A	14840	1	1998	
14755	45123	A	14841	1	3030	
14756	45124	B	14842	1	2558	
14757	45125	A	14843	1	3828	
14758	45126	A	14844	1	4134	MRKKQSRKTGNSKKQSTSPPPK ERSSSPAMEQSWTENDFDELRE EGFRRSNYSKLQEEIETKQGEV ENLEKNLDKCITRITNIEKCLKE LMELKAKARELHEECRSLRSRC DQLEERVSVMEDEMNEKMQE GKFRERIKRNEQSLQEIWDYV KRPNLPPIDVPESDRENGTKLE NTLQDVIQENFPNLARQANIQI QEIQRMQRYSSRRATPRHIIVR FTKVEMKEKMLRAAREKAFKQ ASRREDDIAKVTSQ
14759	45127	B	14845	1	3555	

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14760	45128	A	14846	1	3345	
14761	45129	A	14847	1	3451	HTKNPSVHHHRQRPKVDKTTK MGKKQNRKTGKSKTQSAFPPP KERSSSPAMEQSWMENDFDEL REEGFRRSNYSELREDIQTGKG EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRN WIKSQDPSLCCIETHLMCRDT HRLKIKGRRKIYQANGKQKKA GVAILVSDKTDFFKPTIKRDKKE GHYIMVKGSIQQUEELTILKIYAP NTGSPRFMKVLSLQDLQDLDS HTLMGDFNTPLSTLD
14762	45130	A	14848	1	2606	MVASRSSRVGVFYGGQNSVDG VSRSSDGLNELCLYRPPTGAY LAYDTLDVLPSGQFTVNTPPID VNGKSLALLWEHTSLLTSMG GGRWAMQPLGLGLEHLGD RRDQVLDGRSRRDLAAQHL RHRPDRRQGMVGVLTNQKEP RTRWIHSRLPEVQGGTGTVPSE TIPIDRKEGILPNLFDASIIIPK RGRDRTTKENFRPISLMNIDAKI LNKILANRNQQHIKKLIHHDQV GFIPGMQGWFNICKSINVQHIN RTKDKNHMIIISIDAFAFDKIQ QPFMLKTLNKLIGDGTYLKIIRA IYDKPTANILNGQKLEAFPLKT GTRQGCPLSPLLFNIVLEVLR AIRQEKIKGQLGKEEVKLSLF ADDMIVYLENPVSAQNLLKLIS NFSKVSAKYKINVQKSQAFLYTN NRQTESQIMSVFPFTIASKRIKY LGQLARNAKDLFKENYKPLLN EIKEDTKKWKNI PCSWVGRNI VKMAILPKVIYRFNAIPIKLPMT FFTELEKTTLKFIWNQKRARIA KSILSQKNKAGGITLPDFKLHY KITVTKTAWYWYQNRDIDQW NRTEPSEITPHIYNLYIFDKPEK NKQWGKDSL FKNWCWENWLA ICRKLKLDPLTPYTKJHPRWIK DLNVRPKTIKLTLEENLGNTIQDI GMGKDFMSKTPKAMA AKAKI DKWDLIQLKS FCTAKETTIRVN
14763	45131	A	14849	1	2862	

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14764	45132	A	14850	1	3724	MGKKQNRKTGNSKTQASPPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLRSR CDQLEERVSADEDEMNMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIQENFPNLRANVQI QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL
14765	45133	A	14851	2	2375	
14766	45134	A	14852	1	2376	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQAIDLIDYRTLH PKSTEYTFSSAPHHTYSKIDHIL GSKALLSKCKGREIITNCLSDHS AIKLELRKIKNLQNRSTTWKLS NLLNDYVWHNEMKAEIKMFF ETNENKDTTYQNLWDTFKAVC RGKFIALNAHKRKKQERSKIDTL TSQLKELEKQEQTHSKASRRQE ITKIRAELEKIEIQTQLQKINESR SWFFERINKIDRPLTRLIKKKRE TNQIDAINKDKGDIADPTDRQ TTIREYYKHLYANKLENLEEM DIFLDYTYLPLNLQEEFESLNRP ITRSEIVAIHNSLPTKKSPGPDGF TAEFYQRYKEELRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKNIPCSWSVGRINIVKMAIL PKVIYRFNAIPKLPMTFFTELE KTTLKFIWNQKRARIKSLSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDIDQWYRTEP LEITPHIYNLYIFDKPEKNQW GKDSLFLNWCWENWLAICRKL KLDPLFTPYTKINSRWIKDLNV RPKTIKTEENLGIITQDIGMGK DFMSKTPKAMATKDKIDKWDL IKLKSFCTAKETTIRVNRQPTK WEKIFTTYSSDKGLISRIYNELK QIYKKKTNNPIKKWAKDMNRH FSKEDIYAACKHMKKCSSSLAI REMQIKTTMRYHLTPVRMAIHK

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14767	45135	A	14853	1	1576	MDKFLDFTYTLPRLNQEEVESLN RPITGAEIVAIINSLPTKKSPGPD GFTAEFYQRLISNFSKVSQYRIN VQESQAFLYTINRQTESQIMSA LPLTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTNKWK NIPCSWVGRINIVKMAILP/KEL EETTLKFIWNQKRARIKASILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDRDQWNRTEP SEIMPHIYNILIFDKPEKNKQW GKDSL FNKWCWENWLAICRKL KLDPFLTPYTRINSRWIKDLHV RRKTIKLEENLGNTIQDIGMG KDFMSKTPKAMATKAKIDKW DLIKLSFSCTAKETTIRVNRQPT KWEKIFATYSSDKGLISRIYNEL KQIYKKKTNNPIKKWAKDMNR HFSKEDIYA AAKKHKMKCSSLA IREMQIKTTMRYHLTPVRMAII KKSGNN/R/CAPGTPERQNHLS WKG*SQEPSGLAQWIPLWSP AS*DPLA*NSCCQHSLKSTWD AQACARKLRTLIGYRNCQLE
14768	45136	B	14854	328	1467	
14769	45137	A	14855	3	3412	
14770	45138	A	14856	1	2907	MDKFLNTNTLPRLNQEEVDLSL NRPTGSEIVAIIVNSLPTKKSPGP DGFTAEFYQRYKEELRIKYLGI QLTKDVKDLFKENYKPLLKEIK EDKNKWKNI PCSWVGRINIMK MAILPKVIYRFNAIPKLPMTFFI ELEKTTLKFIWNQKRALIAKSL SQMNRAGGIMLPDFKLYYMAT VTKTAWYWYQNRDIDQWNRT EPSEITPHIYNILIFDKPEKNKK WGKDSL FNKWCWENWLAICR KLLDLPFLTPYTKI



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14771	45139	A	14857	1402	3004	TEPKTKTT*LSA*MQKGPLTKF NNPSC*KLLIN/IVLEV/LAIRQ EKEIKGIQVGKEEVKLSLFADD MIVYLENPIVSAQNLLKLISNFS KVSgyKINVQKSQAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLNEIK EDTNKWKNILCSWVGRINIVK MAILPKVIYRFNAIPIKLPMPFFT ELEETTLKFIWNQKRARIAKAIL SQKKKAGGITLPDFKLYYKATV TKTAWYWYQNTDIEQWNRTEP SEIMLHIYNLYIFDQPEKNKQW GKDSL FNKWCWENWLAICRKL KLDPFLTPYTKINSRWIKDLNV RPKTIKTLEENLGITIQDISMGK DFMSKTPKAKATKAKIDKWDL IKLKSFCTAKETTIRVNRQPTK WEKIFATYSSDKGLISRIYNELK QIYKIKTNNPIEKWVKDMNRHF SKEDIYA AKKHKCSSLAIR EMQIKTTMRYHLTA VRMAIHKK SGNNSLIVGASMDTSLSGPIPY DIQHDFRFGSVTVRRGCAIEFY

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14772	45140	A	14858	884	2925	GIKYLGIQLTRDVKDLFKERS/Y EPLLNEIKEDTNKWKNI PCSWV GRINIVKMAILPKVIYRFNAIPK LPMFTFFTELEKTTLKFIWNQKR ALIAKSILSQKNKAGGITLPDFK LYYKATVTKTAWYWYQNRDI DQWNRTEPSEITLHIYNLYIFDK PEKNKQWGKDSL FNKWCWEN WLAICRKLKLDPF LTPYTKINSR WIKDLNVRPKTIKLEENLGITI QDIGMGKDYMSKTPKAMATK AKIDKWDLIKLSFKTAKETTIR VNRQPTKWEKIFATYSSDKGLI SRIYNELKQIYKKKTNNPIKKW VKDMNRHFSKEDIYA AAKKHM KKCSPSLAIREMQIKTTMRYHL TPVRMAIHKSGNNSPTCVSQD WKLTA VGLWSAEAEAPKSAQ RRPLAEGHRAAVQRDGSGLQL LCTVKLQVLPCHIAQNGGRKA TSSLEAELTSWRPLCLEDGTGF RGEDTLETVNAEGRENRRKAG HRAAGSSASRRCRNTGRSVQRL RPQKTQAFPTHCHFCILVVK TQLNPKSRVRKVPFAPMKHGK ALAGPWANICAGKSSNEIRTC RHGCGQYSAQRQSRPHQGV LCSAGSTVYAPFTGMIVGQKEP YQNKNAINNGVRISGRGFCVK MFYIKPIKYKGPIKKGEKLGTL PLQKVYPGIQSHVHIENCDS SSDP
14773	45141	A	14859	1	2577	

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14774	45142	A	14860	3019	5574	RÉTRGEVKNKSNQSTAPPKDC SSLADPKKIQTITREYYKHLYPN KLENQEEMDKFLDTYTLPRLN QEEVESLNRPIGTGEIVAIINSLP TKKSPGPDGFTAIFYQRYKEEL VPFLKLLFQSIEKEGILPNSFYE ASIIIPKLGRDITTKENFRPISV MNIDVKILNKILANRIQQHIKKL IHHDQVGFIPGMQGWFIHHSI NVIQHINRTKDNHMHISIAEK AFDKIQQHFMKLTLNKLGDGT YLKIIIRAIYDKPTANIILNGQKL EAFPLKIGTRQGCPSPLLFNIV LEVLAIRIQEKEIKGIQLGKEV VKLSLFADDMMIVYLENPIVSAQ NLLKLISNFGKVSQYKINVOQS QAFLYTNNRQTESQIMSELPFTI ASKRIKYLGIQLTRDVKDLFKE NYKPLLEIKEDTNKWKINPCS WVGRINIVKMAVLPKLPMTFFT ELEKVTLLKFIWNQKRARIAKSI LSQKNKAGGITLPDFKLYKYAT ATKTAWYWYQNRDLQWNRRT EPSEITPHIYNLIFDKPDKNKQ WGKDSL FNKWCWENWLAICR KLKLDPLFTPYTKINSRWIKDL NIRPKTIKLEENLGITIQDIGMG KDFMSKTPKAMATKAKIDKW DLIKQESFCTAKETTIRVNRQPT KWEKIFATYSSDKGLISRIYSEL KQIYKKKTNNPIKKWAKDMNR HFSKEDIYAANKHMKKCPSSLA
14775	45143	A	14861	1895	6140	
14776	45144	A	14862	1	2875	MKAIEIKVFETNENKDDITYQNL WDTFKA VCRGKFIALNAHKRK QERSKIDTLTSQLEKEQEQT HSKASRRQEITKIRAELEKEIQTO KTLQKINESRSWFFERINKIDRS LARLIKKKREKNQIDTIKNDKG DITTDPTIEIQTITREYYKHL YAN KLENLEEMDKFLDTYTLPRLNQ EEVESLNRPIGTAEIVAIINSLP KKSPGPDGFTAIFYQSWAETQP KKENFRPISLMNIDAKILNKILA KRIQQHIK

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14777	45145	A	14863	2843	4460	HQHQQKPHPHRNPIQKSPTSST KVLVLAIRAIQKQSGIQIGS QEVKLSLIEDDMIVHLENPIISA KNLLQLISNFTKVSQYKINVQK SQAFPTYNTKTQIENQIMSELPFT IATKRIKYLGIKLTRDVKDLFK NNYKPLFKIEIREDTNKWKNIPC SWVGRNIVKMAILPKVVIYRFN APIKLPMTFFTELEETTLKFIW NQKRARIASLSQKNKAGGIT LPDFKLYYKATVTKTAWYVY QNRDRDQWNRTEPSEIMPHIYN YLIFDKPEKNKQWKGDSILFNK WC*ENWLTICKRLKLDPLTPY TKINSRWIKDLNVRPKTIKTLLE NLGITIQDIGIGKDFMCKTPKA MATKAKIDKWDLIKLSFCTA KETTIRVNRQPTKWEKIFATYS SDKGLISRIYNELKQIYKKKTN NPIKKWAKDMNRHFSKEDIYA AKKHKKKCSSSLAIREMQIKTT MRHYLTPVRMAIKKSGNNRC WRRCGEIGTLLHCWWDCKPVQ PLWKSVMRFLDLLEIIPDPPI PLLGIIYKPKGYKSC
14778	45146	A	14864	1	8335	MGKKQNRKTGNKMQSASPPP KERSSSPATDQSWMENDFDEL REEGRFRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVSADEMNEMK QEGKIKRDKEGHYIMVKGSIQQ EELTILNIYAPNTGAPRFIKQVL SDIQRDLDSHTLIMGDFNTSLL TLDRSMRQKVNKDTQELNSSL HQADLIDIRTLHPKSIETFFS APHHTYSKIDHIVGS
14779	45147	A	14865	1	3166	MVKGSIQQEELTILNIYAPNTG APRFIKQVLSDLQRDLDSHTLI MGDFNTPLSTLDRSMRQKVNK DTQELNSALHQADLIDISRTLHP KSTETVFFSAPHHTYSKIDHIVG SKALISKCKRTEHTNYLSDHSA IKLELRKLNLTQSRSTTWKLN LLNDYVWHNEMKAEIKMFFE TNENKDTTYQNLWDAFKAVCR EKFIALNAYKRKQERSKIDTLTS QLKELEKQEQTHSKASRRQEIT KIRAEIKEIETQ
14780	45148	A	14866	1	3912	
14781	45149	B	14867	1	2832	

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14782	45150	A	14868	1944	3531	LRDCKRINQHPVKTDQSAFCM/AP/ MQDVVLEVLARAIQKEIKGIQLGKEEVKLSLFADDMI VYLENPVISAQNLLKLISNFSKV SGYKINAQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEITEDT NKWKNIPCSWVGRIINVKMAIL PKVIYRFNAIPKLPMTFFTELE KTTLKFIWNQKRARMASILSQ KNAAGITLPDFKLYYKATVT KTAWYWYQNRDQVQWNRTEP SEITPHIYNYLIFDKPDKNKQW GKDSL FNKGWENWLAICRKL KLDPLTPYTRINSRWIKDLNV RPKTIKLEENLDITIQDIGMGK DFMSTPKAMATKAKIDKWDL IKLKSFCIAKETTRVNRQPTKW EKIFATYSPDKGLISRIYNELKQI YKKKTNNPIKKWAKDMNRHFS KEDIYA AKKHKMKRCSSSLAIRE IQIKTTMRYHLTPVRMAIHKSG NN/R/CF*WQKPGPSG*ALRSWK EDIAGTSYVGMNQCCMRKNKTLI
14783	45151	A	14869	1182	3891	KMIKGISTDLTEIQTIREYYK HLYANKLENLEEMDKFLDTYT LPRLNQEEVESLNRPIGTAEIVA IINSLPTKRSAGPDGFTAIFYQR YKEELVPFLKLFQSEIEGILP NSFCEASIIIPKGRDITTKKENF RPISLMNIDAKILNKILAKRIQQ HIKKLIHHDQVGFIPGMQGWFN IRKSNVIOQHINRAKDKNHMISI DAEKAFDKIQQHFMKLTNLRL GIDGTYFKIIRAIYDKPTANIILN GQKL
14784	45152	A	14870	997	1161	CTSTVIMSICTKLQNKEHVJEA LRRAKFKFPGHPKMHHSKK*DFT KFNADFED
14785	45153	A	14871	1	1458	
14786	45154	B	14872	53	1468	
14787	45155	A	14873	1819	2235	

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14788	45156	A	14874	707	1613	VRARAGERARVVRENGKAELP VALVLPRLSHSTFTCTDLKVQ FHQRLRLQEKSGKFGSNNMSQE SDNNKRLVALVPMPSPDPFNTR RAYTSEDEAWKSYLENPLTAA TKAMMSINGDEDSAAA/HRPAL *LLQENQSEPIPREGVGWG*GE ER/ERMTEEEQEGEGGGGGRGG GEGEEEEEEEDVEEEEEEEEE EKEEEEKGGKEEENEKEKQKQ EGRRGKETSNQGMVRPRLLP HQEHSRNYLVFIMDSNMIEICF REASISPKAQAYVLIPDFKNCIY GWEDSIEILWGLPGSHVL
14789	45157	A	14875	3	346	QRSKCKVPLGKPLTLPPKPE KVPQGQKDRRPTGFKP*N*RRRR SEKSLRFFPPGS/PQAVPIPVGFS FDTNL*HFL*KPLIFIMGTVSL PHPRSPSAPPPTPQRPMTFCHLK Q
14790	45158	A	14876	1868	2666	GLLLSPFQGLQGVAPRKTRSNL HPGSLAHLSHQPPAPWPPRGLW PPGQETSCHCASGRALGTGSPR PPHAPWLHLEPQRAHSGAPSP GSSPSAPLHIPVAPENQLSLGHR SPPNPSGPDCCYSPSPGPPSSLD SPGLQTAPGAMFLSPRSVGQSA CPTPRSLDLRNSPASTPDQSVCP TPLSLA WLWPPPSPTSAKSLIFT LTSEVQSFSPPTIPPGSSDPPLSK QP/SGSCLSSSGHLTSPSVPRHSP WPRSSPQNPHSWTLPS
14791	45159	A	14877	762	1528	AIPGGAA WPFRAEGAQGFGKR LTFKPLGAQRQSVSGSEVPPL PLHLKMAPEMPVAL*SPGTGV HPSLLPPT/GPKVPPGRIDRGVPV TLAPQVGTAPIQWHCRGSRCP G/SRPPGGWR/RPCQAPAPPLGQ HLPRLLPPTPGQGRPLTPSEP PPWSCWLPASPPAGPSRRVGG GPGTCQGLLRS*GLLLSPFQGL QGVAPRKTRSNLHPGSLAHLSH QPPAPWPPRGLWPPGQETSCHC ASGRAVGTGSRPRRA

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14792	45160	A	14878	1	963	MARKDCCSPGDSSPGRLPLVL PAQCLVLLRLQITAFSSIHVAAN DMMSFFLMAKQDSIAKYRIF IHSSVDGHARPLSPSLVVENG GKQVLLCSDNASPEVSTVALA SCPGTFPRHCGAAESTHICATG LGELTPQGGHGHIPNKLACCAT GLEELVPRDHGKLGISWFGFIA GAYLNLARVVGECQGSYGYS LHHYCYHYHYHYCHYHYHAA TY*NHYHYHYH/HNNNSYHHH SYHYHYHYHYHYHYNCYHHH YHCRHYHHPDYYHYHA/RHY SLYYCIYLCYYYRYCHDHSS HQHNHHECLP*VRHSAEHLQY
14793	45161	A	14879	105	1448	CHQPPASPFSRREFGGSEKPPER GCPAWEPAAGPVQPLGEDGP RLCQPPPPSPDHALG/PYGHQRS GRPTLPGRPK/PAKKRGR*PSS TGQ*SHRPITGTGGQAGGSG* VTAGGQ*PPQNL*AKISCPMP GPSPGMQQGVKHPSLFSHQTV AKGFTTRWNCRQVCPHRGERK WISSVRPCGGALAPSCA/DGLR GRRTLSGSQPLW/PPAAVSAVG QLQPPCHTLTPHPLQNSTQHAE PQRGSVYSL*EGTSP/LAAVPFA PHIEKRFSTFPAGDA*PSEAHA/ PGPACCHSPGLEGVPSRAGPG TSAGR/PGNGRERAWPPHSGPS TPPDTSCG/SPGPQLARAGSRRA NGSTLPPTRQGF/LPGRKDSAGA CGQP/*AEGAAAGPSRPAER AVLPLPR/GRRKCRGGGPGVET GVSGARRGGDRSGCSPAALDA EAPASLAGVSIRES
14794	45162	A	14880	1	2421	

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14795	45163	A	14881	1080	2571	VHCRFWILALCQMSRLQKSPILL FNIVLEVLAKAIKQEKEIKGIQL GKEEVKLSLFADDMIVYLENPI V/SAQNLLNLISNFSRVSGYKIN VQKSQAFLYTNNRQTESQIMSE LPFTIASKRIKYLGIQLTRDVKD LFKENYKPLLNEIKEDTKKWK NIPCSWVGGRINIMKMAILPKVI YRFNAIPIKLPLTFFTDLERTTL NFCNQKRAPTLQVQSLSIQKN KAGGITLDPFKLYLQGLQ*PK TAWYWYQNRDIDQWNRTEPS EIMPHIYNLYLFDKPWEK/HKQ WGKDSL FNKWCWE\NWLAI CR KLKLDPFLTPYTKINSRWINDL NVR\PKTIK\TLEENLGITIQD\IG MGKDFMSNKT PKA\MA\TKAKI DKWDL\KLSFCTAKETTIRV NR\QPTKWKIIFTYSSDKGLIS RIYNELKQIYKKKTNNPIKKWA KDMNRHFSKEDIYAAKKHMK KCSTSLAIREMQIKTTMRYHLT PVRMAIHKSENSRCWR
14796	45164	A	14882	136	420	RESRNL SRGEESDPAEPS\ RNG *EHPLCYLQ*EFLQVLTMLQAE GTMHHFRSICQVNRNFLERGH/ SPSPAPPETHTGSPRPPSGRSR IRAYLH
14797	45165	B	14883	1	1197	
14798	45166	A	14884	3	538	GAGTDGGRTPAPRAFDPDLGEA RTSAPTGPARP GGSASAARPA VRPAEPAAEETQEOPRAGKRAI HEYRYVYVQQRKTDPPQAVA VFGIPADGD*VSR TAYHAHQPL AWSGR/E*MCLSMAMWNT*ST MKK*ISIRVISRCSGPVHRTN*QI PEPVRAWRFLICRCICFSPGRWI KT



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14799	45167	A	14885	1208	2765	KMAPTWDKMVSSAQMGFNILQ ALLSQLSQDELSKFKYLITTFSL AHELQKIPHKEVDKADGKQLV EILTTHCDSYWVEMASLQVFEK MHRMDLSERAKDEVREAALKS FNKRKPLSLGITRKRERPLDVDE MLERFKTEAQAFETETKGNVICL GKEVFKGKKPKDNRCRYILK TKFREMWKS WP GDSKEV/RGY G*EIQDADPIQQPQGASRALPY TVVLYGPAGLGKTTLAQKLMML DWAEDNLHKKFYAFYLSCREL SRLGPCSFAELVFRDWPELQDD IPHILAQARKILFVIDGFDELGA APGALIEDICGDWEKKKPVVPL LGSLLNRVPLCIENKLGVGGED WGDQLRVYWWNPSKREGGSG WSHGSEDANQSLKHLRLSANV LLDEGAMLLYKTMTRPKHFLQ MLSPWETTTLAQIIMLDWAEETS SDKLKYAFYCSCRELSRLCPCN FEELVFRDWPELQDDIPHILAQ ARKILFVIDGFDPLGGRTLWTL TRGHLRELGNRRKRCPSWGV
14800	45168	A	14886	213	625	EPGIDTSCLCAGRCRSPGKGRA CGGSSPCS WP GQP PAPPAAAAV PACPSGGRGAGPIQSGTCCSR5 ADSRCTSWTAW/WPPGLGAAT VQTVMS*TV/WPMPHV PQAGW LALGQGAAAAKHPLTSATTRS WCLGVGPGPW
14801	45169	A	14887	1	375	MCNAQVLEYMGKSSLLTSDL QLVRDALRSLRNSFGHDPQHH TIDSLQGISSLMERLHVMEQ KKQERKPPVIPRQT/VVWSGP PANSNRPAEGPDC*KEN*RDA LRSLRNSFGHDPQHHTIDSLQ GISSLMERLHVMEQKKQERKP PLVIPRQTGSGVDLQQTPTDLQ LRDLTVRRKTNEQKGIASASTK RTSTPKPHL

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14802	45170	A	14888	1	750	MGELNQGSWRQGHLP.DAAN GIAIRVPRRRKDESRKNPTRKPH SWKPTKNFEDDVEVMKRSMSI RIEDTHSGPSAAGVLEFAGGPL QTLFAWVSPAEEAEQQRLLPVP /CLWKLCPRGAPARCQRQNSPSK LPSTGFVYTVRGKLPQTQASVVVD APPATKLECPRSTSDCCAGSKN FKPVDLSLLASVGPVRVNLQQES SHYGKISVTVAGHCPTHTATGRI LGKQALRWSPMCSMFIGRALG LVPVEGGLLQIA
14803	45171	A	14889	81	164	VGKQGLEWTFPANSRRPAAEGP DC*KEN
14804	45172	A	14890	1	674	MVVYACSPSYLEAEVGGSLSE VEATNPKNSSKKFLDLISEFCK VSGYKISVHKSVALLYTKNDQ AATQIKNLIPFTTAAKQFYFGI YLTKEEERLKPSRKKITKKHTK KRTASLILHAMICSQIPKQQQNE KYQVPQFDQSTIKNIESAKGLD VWDSWPLQNADGTPPLVIPRQ T/VVWSGPPANSNRPAEEGPDC QKEN*QTERNSINIKKDIHTKT PLCI
14805	45173	A	14891	619	931	YLLMDFLLHSWLVS LGDKVP HEFWRGCPSCSFGPRFWVAGV LVL*APKL*LRQVRSAGKRCGQ KW*IK*/SDRLCVD*NK/WSDS LKPATSCSLIVTCHSLLGF
14806	45174	B	14892	1	658	
14807	45175	A	14893	48	288	LCSIKKPEKSLLCW*YPGNRVW SGPPAKSNRPAAEGPDC*KEN* QTERNSININKDIHTKTPSEGH QHQRPKTKPGRI
14808	45176	A	14894	801	1157	QSGPSAAGLLDFAGGPLQTLFA RVSPAEEAEQQRLLPFPSSGKL RPRGAPARCQPELSCMRGR*SL LGGVSGSYGMGVRDPFEEAAC PLSELECSAGRSALLRMVRQG HLGLLKLRP

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14809	45177	A	14895	1	1891	MPVWVTVVKSWNTQIGRPGH VSALGFELTKNPWPLTYESGDG RSLGKPGA VSRGRGRHGPHPQ QAECDLPAGRIAGPCERGLERQ EKLPPAPQGGAWHLRLSRERFK SEDAPKIHVALGGSFLNLAF LVNVGSGSKGSDAACWARGA VFHYFLLCFTWMGLEAFHLY LLAVRVFNTYFGHYFLKLSLVG WGLPALMVIGTGSANSYGLYTI RDRENRTSLELCWFREGTTMY ALYITVHG YFLITLFGMVVLA LVVWKIFTLSRATAVKERGKN RKKVLTLLGLSSLVGVTWGLAI FTPLGLSTVYIFALFNSLQAHKQ LKDRKVGPHFMQGA VFLEGGF WGVDIASFEPQEQFWWTNLGK EDEDKSFDMPHSWVEQIEISPEE EAMGSAQMVRGVSQPERGSKK RPQLTVSTAFETRCPNGKKVIQ YKRAKLEKWAPYLNNSGLVSR LTTYEDLQCTNILEIKWYQNR EDMLELKHINKTTDLKTDYFKP GHPQALRVHSYKSMQPEMDRV IEFYETARVDGLMKREETPRMT TEYYQGRPDFLSYRHASFG/RPS QEAHSEQCRVKPPAHCAKPAE DDV/RKSACFWSRRSASSCATT AVRTTSRPPSASSCGAPRWAK
14810	45178	A	14897	1	425	HVQQTETISRTVSTGSPILSCSVP VTLPNGPVLWFKGN/AGPNRKL IYNFKQGNFPRVKEIGDTTKPG NTDFSTRJREISLADAGTYVCV KFIKGRAIKEYQSGRGTVFVT VSYSSRSQKSEICISGLKSRHQQ NCSFWRF
14811	45179	A	14898	1	393	RQGNFPRAKQIGDITKPGNTDF STRJREISLADVGTYYCVKFIK RAIKEYQ/SGRGTVFVT EQNP RPPKNRPAGRAGSRAHDAHT CLSALPERNSTNYFVQPCCLLR LLGLTGFAVKIIQTGKERTSK

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14812	45180	A	14899	1	753	MGSSLSPVLVYALPVRQPLI.RS VVEERSTKMRVSGPGFQAKFRF YSQGLSWSARGEGLVPAFWL QPYPRPLNFKAEEMTEQKENQT YVDGGFRPYIHRRKNL.TEGHK AEKEMEPWDGFSDESCRTHCQ VHDYAKGHGEVQRERVDEQK EHLGRRRQDCQQHLNRRL.HC /TVSGEAPSEASGSVRGHGRAH GLAGSERHGHDAAPEHQLLQ SVDADHVVPVAVYQFWDDEG RGILSPGDHFKPDRRGAALY
14813	45181	A	14900	6	726	VEGISRTGIQAEQAPGFTTMP VSVNPGDVLTLACNMSALSPE GPVLWFKSIGPGQQLIFSCNGS HFPRVTPVENTMVDQTDYSIILS CSVPNTLPNGPVLWFKGTGPNR KLIYNFKQGNFPRVKEIGDTTK PGNTDFSTRIREISLADAGTYYC VKFIKGRAIKEYQSGRGQTQFV TGEYVSYTPYPLVYNS/PLWDE ASRGRSRQSQLFCSLHW*YPR KQDELTWSSKLQQTCCRVA
14814	45182	A	14901	760	978	KKLLLLLLCGIEWHGFSSDSGS GGWVPEG*K*GCEHELLPEDVP SCFGWAECWLVRRTLPLFHYV ELCYSFHG
14815	45183	B	14902	772	1165	
14816	45184	A	14903	1	2133	
14817	45185	A	14904	1	1311	MATTPGRALGSLLPITLLGLTA GQPFISLTGPSHRTSPGDSVPFN CTAVPFNSQDFSRDFNVTWLK DSDEHPASAQRLVPDNGGNDFI TSKAWVTLTRQDVSSEITCEVT HRAIAEPLKTTMNLSQATRNP DGTYSLEHTWQAEATLEEREF ACWVVHDEQPLKANVTLQQAQ VRRQGGKQSVQPYKLQGPLQR SEPGTRIRLTAYSSGFSTHQVTV TWLKNKHELPNPQTSVQYSGH TYNVTSSVLVPLMDDDDVFSHV VCHVEHKLTWFFQKTTGLDQY L/QG/DP*QLCGGHLTLPSSPRAP PQLPGLQHP/VVFHSQVLLFSC VAVTCLVQRFYPQNVHLAWLE DCHTLKGTEQPTLKKNNDRSY TLEKLLLVNASVQGPVRLTC MMEHEGQPPKRANLVLSTAHH TAYKPIGSTESIMVTMIITISQM

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14818	45186	A	14905	3	341	RRATRPGN*GGRHNAGRSSARL ETGRPAMAPQGRPRPLGCRTPQ HPGHWPSAPGLLPPAPGPVAG MTQAQRWCPEPDAHFLQYTLTY FVRHIPQLPKQTPHHYIATRLPC ATQ
14819	45187	A	14906	154	679	GVCCPLLGGVSS*ATWGS GTT* GGNTHLI
14820	45188	B	14907	1	2554	
14821	45189	A	14908	387	826	ARAACLPRGSARGTAGAGEEPP DPAPLHLRGEGPAP/HRPRSFRG MGWPAAPSTRSPST*RRCLPP RPRWSP*SHPGPRASARRLP*LS *RASRSSEAPSGSLGSAAGQD CSRTGTGFSPPAFSDGQQTTPP APSSVPTLNSLG
14822	45190	A	14909	86	2223	GQEPQVREQKACHHLGSSPPPS WEL*EQRPAGP*N**PSTLTGT GSTTT*QIRMKVN*MGN/DSPQ GKNTPKMYSGEFSPPVRVHVFFS LSDLKQIKIDLKGFSDDDPDGYID VLQGEDILAKAGAIRHLNIGEG THVCCPLLEEGINPEVWATEGK YGRAKNAHPQVVKLDSASFY QRQYPLRPEAQGLQKIVKDL KAQGLVKPCSSPCNTPILGVOQK PNGQWRLVQDLRIINEAIVPLY PAVPNPYTPLSQILEAEWFTVL DLRDAFFCIPVHPDSQFLAFED PLNPMSQLTWTVLPQGFSDSPY LFGQALAQDLSQFSYLDTHVL WYMDDLLLAARSETLCHQATQ ALLNFLATCGYKVSXPKAQLC LQQVKHLRLKLSKGRALSEER IQPISAYPHPKTLKQLRMFLGIT GFCQIWINRYGKIARPLYTLIKE TQKANTHLVRRTSLOPVA YLS KETGTSLQPVA YLSKEIDV VAK RWPCHLRVVAAIAVLVSKAVK MIQGRALTVWTHD VNSILTAK GDLWLSDNHNEEKIEHNWQQV IAQTYAAQGD LLEVPLTDPDLN LYTDGSSFEKGLRKAAYAVFS DNGILESNLTPGTSTQLAELIA VTQALELEGKREPNADNASY SCEPLEDLRLFRQPIEA VKLQ MVLQMEPQMOSMTKIYRGPLD WPASPCSNVDDIEGTPPKEISTA

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14823	45191	A	14910	929	1324	RRYQVQRPSEGLTVYLFWPV*/ PVVGVDWPLPTGPD\YSLLVPIPP PPRARTPRWA*A*MKGCRRSAT A*WCMC*SCRVPSPCTPMFHS PCSAMTAVTPSLARP*THGSP KAQGAQGVKGPSSGLEAPPW A
14824	45192	A	14911	2	286	
14825	45193	A	14912	220	249	P*N**PSTLTGTGTTT*QIRM KVN*MGN/DSQGNTPKMY GEFSPVRVHVPFSLDLKQIKID LGKFSDDPDGYIDVLQ
14826	45194	A	14913	1	163	EPENPADNASYSCPELDRLL FRQPIEAVKLQMVLMPEPQM QSMTKIYRGPLDWPASPCS*DF LGRGAFNVINIGAWASRPVQGS AVDLSHGLHLGLHLKNNHL
14827	45195	A	14914	1	287	
14828	45196	A	14915	2498	2788	
14829	45197	A	14916	112	333	
14830	45198	A	14917	329	1666	
14831	45199	A	14918	1	756	
14832	45200	A	14919	1256	1651	RRYQVQRPSEGLTVYLFWPV*/ PVVGVDWPLPTGPD\YSLLVPIPP PPRARTPRWA*A*MKGCRRSAT A*WCMC*SCRVPSPCTPMFHS PCSAMTAVTPSLARP*THGSP KAQGAQGVKGPSSGLEAPPW A
14833	45201	A	14920	1	987	MLVLGYNRKNTEGTQKQKGT NASDFHFLSQVLEQVSPKGS EAQCCVLRHLGCESESAPGIPP NLGIQLLTWAVMWDPFPTTLA RAPSLALELMTQYFNNWNWV YNNITDQGESKMSKLGKERR QREGERRERKREKREKRESQR KERKREKKGKREKREKDRSDL KQIKIDLKGFSDTPDGYIDVLQ GLGQPYLWTRDIMLLLDQTL TPNERSAAITAVREFGDLWYLS QVNDRKITEEREQFPTGQQA VP SVDPHWDTESEHGDWCHRYLL TDVLEGLRKTRKKPIN*SMIST ITQKKEENPTAFLERLREALRKH
14834	45202	A	14921	473	1015	
14835	45203	A	14922	3	937	
14836	45204	A	14923	530	612	LQAKVFFLLRWPAIRLG*NYGP RGVPH
14837	45205	A	14924	101	430	

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14838	45206	A	14925	1	1587	MAALTLRGVRELLKRVDLATV PRRHRYYKKKWAATEPKFPAVR LALQNFDMTYSVQFGDLWPSIR VSLLEQKYGALVNNFAAWDH PGDIVLDLCAAPGGKTLALLQT GCCLTWSRKRCAALSMFSRPA RCLCRARTTAPRAVRRPDQRR ATAAATKQQAATPEAPGSAA HSSYCTMIPSAACCI.PRLKPPH AQPARSAAKPLDQPGSHARL RGRGGEARQSLAIRGGPSGIA PSDIPLPAKPSRRVIAQTYAARG NLLEVPLTDPDLNLYIDGSSFVE KRLRKAGIKAVKLQIVLQMEPQ MQPMTKIYCGPLDQPASPRSNV DDIEGTNASDFPFLSQVLEQVV SPKGSKEAQCCVLRPLGCESNL KQIKIDLKGFSDTPDGYIDVLQ GLGQPYLLTWRDIMLLDQTL TPNERSAAITAVREFGDLWYLS QVNDRKITEEREQFPTGQQAAP SVDPHWDTESEHGDWCHRYLL TDVLEGLRKRKKPIN*SMISTI TQKKEENPTAFLERLREALRKH
14839	45207	B	14926	1	939	
14840	45208	A	14927	1	4317	MQSMTKMYCGFLDQPASPCSN VDDIEVKLEIMLLTERDDGKEV LDVGEERRYEIEEYDSK WTRK YNCLAVLRVHSGSQITTMKIL WYLVAALWCFKDGKIAASRS GGFSYGSSSGDLDRKKPLFSL EFGSPGETEDKSRQRQDAGSPK SEDTAGGFFNSSSSSGSDRTRK PFFSLGLGAPGKAEDKSGDSQD AGGSKSEDTPPGGFFYGSSSSG DSDKKKPLFSFEFGATGEDEDK SRERWDAGNRSSEDS
14841	45209	B	14928	110	269	
14842	45210	A	14929	1	561	EVFPACSQLVYWGKPIITTYPLCE NNVYMLSPNASCCLYSPLAEQ FSHQFPSHDLPSVLAKFSLPVSL SEFRNPLAPAVQETQLIQMVV WMLQRRLLQLHTYVCLMASP SEEEPRPREDDVPFTARVGGRS LSTPNALSGSPITSSDDMTLSTP SMDNNSAELLPSGDSPLNQRM ENLLASLSEH

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14843	45211	A	14930	1891	2522	GLSNQNPQPGRCIPDAHPVQDI. VQDLVHTWCRVPCTSYVPCV* VPGAYLVHTRCIPGAGPGAYPV HTWCRTWCIPGAGFPAL/RPYH ALLLLSDEKSLLGELPIDCSPAL VRVIKTTSAVKNLQQLAQDAD LALLQAMGSAVALVMWAWP RATGPKLYCLRVGAGGACGWR PRLVAVSRALLVWRGSPWG PALAWQKSPEYSTKVLKQ
14844	45212	C	14931	113	274	
14845	45213	A	14932	1	1634	MEIPAVILTVAPILHLTSCGFV TGDGLKQAEKCAPEEWNPTK FIKLTNDQACFAGLWPLSEIQ RRTSRTVTIISRISALREKNGR KPTSISGSVNEMRQVLVKDQVS MPRVLPITIIFVPDEAGFSAGAV WPCAAPLWGSSWTPKVENCS FYIRLSFAISVGGDELKIAKLVS AFPERAYDLVGHQHQRPKVDK TTKMGRNQSRKAENSKQNMS SPPKEHNSSPAREQNWMENEF DELREVGFRRSVITNFSELKEH VLTHIIEAKNLEKRLDEWLTR INSVEKSLNDLMELKTTTLREL EAYISFNSQFDQAEERVSVIDEQ ISEIKQEVKFRKRVKRNESL QEIWDYVKRP/NLRLIGIPESDE ENGTKLENTLQDIIQENFPNIAR QANIQ/QGKLQRTPTKVASSRT ATPRHISVGSPLNMKEKILR AAQRERSGLPTKGKPFRLTAAD LSAETSTSQKTEWGPIFNILKEK NFIQPRUSYPAKLSFISEGEIKYF TDQAKCLRDFVTTAFSCLP*K STRPALKELLKGST



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14846	45214	A	14933	1	1429	MVLAAGDPVEKGITWARENAG IYISCTMMKLSMIPIGDQSYRNL IPLKFVACILIEGNAKCWPLPEF DPSQIRLIVYQDCERRGRNVLF DSSVKRRNEDISVSRIKYLGIQL TRDVKDLFKENYKPLLNEIKED TNKWKNI PCSWIERINIVKIALIP KKLGSDAQVKVFGKCCQLKPG GDSSSLDSSVTSSSDIKDQCLK YQRTVDLSAQLSSSGKGQTTSS SGSLTPMTPHWEIPPSGGQQTSS HTGELRLASGRGSSGMKLPEEG TDRNLCCSAASSGDTQANRDW SGPPANTS RPAEAGPDCDRENG TKL.ENTLKDIIHENFPNIRQAN IKIQEIQRTRQRYCSRRAATPRHII VRFTK VEMKEKMLRAAGEKH WVIHKGKSIRLTVDL SAETLQA RREWGPIFNVLKEKNFQLRISY PAKLSFISEGEMKSFPEQMLR DFVTIRLALQELLKEALNMARE /NR*QPLQKHM
14847	45215	A	14934	2320	2811	ESKLTRGVKDLFRENKYPLLNE IKRGHKQMEEHSMLMGRKNQ YREKWPYLPKVNL*IQCHPHQA TND CFHRIGKKLL*SSYGTKKE PALPSQS*DKRTKLEASHYLT NYTTRLQ*PKQHRYWYQNRDI DQWNRTEASEIMPHIYTILILWT NLRKTSMGERHP
14848	45216	A	14935	2	872	
14849	45217	A	14936	769	828	
14850	45218	B	14937	1	669	
14851	45219	A	14938	1	807	
14852	45220	B	14939	35	212	
14853	45221	A	14940	235	837	QQAHKTPQRRHSAFTEYVRNN RLPETVIRVKQPALAIFSPDIAPL FVHFRADDDVTARVIAIIMIF WCDRVEKRVSDAVACFTLESEI AEVGVLCRTHIRQ*RVQVTPARM *ALSRLHACRSSEVVRHNRPPYP VIRVKQPA/RRDLAPT*PHCSSIS AQTTITSLPGCMREVTELRPEFF K*RKTVLRPTPIMRARAERRCK
14854	45222	C	14941	1	1755	
14855	45223	A	14942	1	747	
14856	45224	B	14943	1	2466	

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14857	45225	A	14944	1	333	LNLVLFQQRAELMIS*PQ*FSRA LLVIFPLLQTELQQLFLLHVN AAVEAPPSPVIGLYSENVRRNR LPETVIRVQKQALARFSPDIAPL FVHFRADDVVTARRVEKRCK
14858	45226	B	14945	1	1794	
14859	45227	A	14946	1183	1899	LNRRDSYVEYLADKVADREED AEEYLEAIMEARVTVAGMGLV MEVQDYDFDGEADRLAKAWLA EYTPQIKSLKDERKEAYRQIVE MSTEPQDQDLVVRPANKFEMTR VREGEKEADLPVWKHHL/SV*R KRELSGSVEPLGNQVFEIETKRE NS*EL**KSLKDERKEAYRQIVE MSTEPQDQDLVVRPANKFEMTR VREGEKEADLPVWKHHLCD SGNYPALLNHWETFRLSKPN VKIHRSSDKSPTYVFFISQYDL PAFYPIHGHLFVERVVKVRIVFI EEFADHHHLAIFQFNRLQRHA FVVTLANVTNQPFSSVVVVNL
14860	45228	B	14947	1	3099	
14861	45229	A	14948	1174	1545	
14862	45230	A	14949	1	945	
14863	45231	A	14950	62	576	
14864	45232	A	14951	1	1642	MLANIGFYNSNVIHRSKGAIGE GPPDPRGIVEQNLGGDISIPCYN GPPRRRSQAQKTTGLPNQPRIPS AQCAGAFPRVAAAGAGGGGG GGSGGSGFCLGWRLRRRRQRR RRWRRGEGEGDGDAGHMRPR PAGRAEARRRRRLRGNPPPGAR LPNREGNGSGVSWAAEVSGDG RGARTEAARTRRRPGGADNYP GAVPPVQLLTGWCVTAKAPPD SAISALTAVKHGNCSSLTPLLNP PGSDVIVCAEMDEQWGYVGAK SRQWLFYAYDSLRTTVVAHV FGERTMATLGRMLSLSPFDVV IWMTDGWPLYESRLKGLHVI SKRYTQRIERHNLNRQHLARL GRKSLSFSSKVELHDKEELAAL FSELKQEQKKVDELIAKLVKNR TRIVNESDVFSSWVIRREFQELR HPVDEEKARCLEGGGHTRGLV ASLDMQLEQAQGTRERLAQAE LCWNSSEMRTTSSSSGSTPWP PVSRRRPWTERRLGSGVRGDLR ERSRPAVNRTPRMSRVPSGAPR GTPSRRWMMKCDWHQMRG LVEEEVG

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14865	45233	A	14952	1	1513	MIILQKESLMSLQAQLDKALQ KEKHYLQTTITKEAYDALSRKS AACQDDLQALEKRTGRDWNW PPFRTQQRGSKSLTAIRPLCLFR KLNHVTSETKSLQQSLLTQTQEK KAQLEEEIIAYEERMKKLNTEL RKLRGFHQSELEVLIEEEMG NHNENTGEKLHLAQEQIALAG DKITSLERSLNYRDKYQSSLS NIELLECQVKMLQGLGGIMG QLSKTSSDLSKM/RCY/TTW*M WTKLQFIHSILTSVIFHLLSFSSM GSI*KWIMALSGSSFLDAHYSIS QFGPRQLPSVCAEPEKEKATDG VVRNGKSTAGHQRYLCSHCRK TWQLQFTYTASQFAGQ*RHRL RGIMDEQWGYVGAKSRQRWLF YAYDSLRTTVVAHREQGSIK CKLEEDLQEATKLEEDKREQLK KSKEHEKLMEGELEALRQEFK KKDKTLKENSRLKEENENLR AELQCCSTQLESSLNKYNTSSQ VIQDLNKSMPMEIRFQLYIFPDQ
14866	45234	A	14953	125	363	INVSVWSQPFPGG*QPEKGLKE HPADARPGSCPPAGRVPQGRA EVASAAAPRGSSPAAAPGQSH PSCLRAPLYWSFSR
14867	45235	A	14954	306	583	TCSTRRRKNDLSVKYVSVWSQ PFPGG*QPEKGLKEHPADARPG SCPPAGRVPQGRAEVASAAAP RGSSPAAAPGQSHPPSCLRAPL YWSFSS
14868	45236	A	14955	225	407	LRGMVTFSPFSSILNGQFENSG CPL/CPVCWVCLREPGDPEKL EFLQKDNISVHYFCLVS
14869	45237	A	14956	484	722	NTCRCGHNRSPVNSRRGGLRS JPRMPDAGSCS/PPAGRPSAGPG RRSPPLLPRGSSPAAAPGQSH PSSSQGAIVLEL

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14870	45238	A	14957	434	1790	GNFFRKTIACIIISVLSYLVSCLR GASPTASMDFLKTSKREAR ASRKICFVCKKKGAAINCQKDQ CLRNHFLPCGQGERGLPFTIFWR VQIIL*QTSPEHRTSNMGHVGE ESCILCCEDLSPTCLRTFQSPC CSQAIYHRKCIQ/TNMPHQSK HFFKCPQCNNRKEFPQEM/REN GNSYSRQRCCLGTRARGFLRLI SALSAL*CPHLVCMNKAETALR MKGGGASFCVLHADPTEPTGT APLLDLTVRNGSVRSVHL/PA TDYIPENSGDIPCCSSTFHPEEHF CRDNTLEENPGLSWTDWPEPSL LEKPESSRGRRS/VLLEVQGCQ NH*QLQKIQVTPSE*LLVPHNR V*TCAPPSGLGREHSGTVRQGS RASSETMS/LSKEKSQWSMRRE QSRCCQGNAFMATRVPLLSPLL LPPRILPP*SCFHMPLLTSPMFV VMQIKVFSPPKKKK
14871	45239	A	14958	146	484	
14872	45240	A	14959	228	353	
14873	45241	A	14960	214	722	TARELPGRVLKEMYIQK*EGA ALGRPTRPGRQGQVRRAECR RLFRGVLRPCNRC
14874	45242	B	14961	1	951	
14875	45243	A	14962	241	517	QSCGQRLPTVLR/PLRTPWILPM YPQPLPAGGPTCLRSRPYINITI LKGDKGDPGPMGLPGYMGRE GPQGEPP*GSKGDKGEMGRP RRPVP
14876	45244	A	14963	748	1055	DRKQTSFGDAYHTIPGSLSSSD HVLSEPD*GEGSHL**SVQHD VPPTA**RLQYRAVVLFPTATL PAILIM*GMRCLVPRNCRTW TAQIRAYIEVQQT

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14877	45245	A	14964	1	832	MPHVCAQRRLPVAAVLPPDGA QNCILLAGLSAGTFCHHGGVHI LLSNPVATSLLVADRVGQIPPP PPPPALPYDCCPPPSRHTEDRE HVPPLHWKLMVNRWFLPVPT EWIATLSNSSRSRTCMSQGLSF LDSQVHLKAMIEDLRGNVSKES SPCLADNADVGQFPMEGGQKD PKQRIIPFCQGVTNLSGPHGPGA VCGGSHYQKQESSEISLSVGQV WTSSRRMSQVGGSSHCRGARL GPCNVPRRPDGVQDEFSLQPEE DAG*QTSVDPMVLEQYVVVA/ NYQKQESSEISLSVGQ/VVDIIE KNESGWVWFV/STAEQGWVPA TCLEQMGCRMSFLCSLKKML DWIQRVSL
14878	45246	A	14965	1	346	
14879	45247	A	14966	157	413	ALVCS/SSLAIEMQIKTTMRYH LTPVRMAIIKSGNNRCWRGC GEIGTLLHCWLDCKLVQPLWK SVW*FLRNLELEIPFDAIPLL
14880	45248	A	14967	1930	5781	RAKSPANIIMTGNSNSHITLTN VNGLNSPIKRIHLASWIKSQDP SVCCIQETHLMCRDTHRLKIG WRKIYQANGKQKKAGVAILVS DKTDFKPTKIKRDKEGHYMMV KGSIQEELTILNMYAPNTGAP RFIKQVLSDLQRDLDSHTLIMG DFNTPLSTLDRSTRQKVNKDQ ELNSALHQADLIDIYRTLHPKST EYTFPSAPHHSYKIDHILGSEA LLSKCKRTEIITNYSLSHSAIKL ELRIKNLTQSR
14881	45249	A	14968	1	2235	
14882	45250	A	14969	1	2148	
14883	45251	A	14970	1	1821	
14884	45252	A	14971	1	1248	
14885	45253	B	14972	4	2121	
14886	45254	A	14973	1	1137	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=-possible nucleotide deletion, \=possible nucleotide insertion)
14887	45255	A	14974	1	1240	MNIDAKILNKILANRIQQHIKKL IHHDQVGFIPGMQGFNICKSI NVIQHINRAKDKNHHIISDAEK AFDKIQQPFMLKTLNKLIGDGM YFKIIRAIYDKPTANIILNGQKLE AFPLKTGTRQGCPLSPLFSIVL EVLARAIRQEKEIKGIQLGKKE VKLSLFADDIMIVYLENPIVSAQ NLLKLSNFSKVSQYKINPVQKS QAFLYTNNRQTESQIMSELPFTI ASKRLKYLGIQLTRDVKDLFKE NYKPLLKEIKEDTNKWKNIPCS WVGRINIMKMAILPKVIYRFNA IPIKLPMPFFTELEKTTLKFIWNE KRARIAKSIPSQKNKAGGITLPD FKLYYKATVTKTAWYWYQNR DIDQWNRTEPSEITPHIYNLYIF DKPEKNKQIQKAFILHAKEPWV MWNMGTNVR
14888	45256	A	14975	1	2241	
14889	45257	A	14976	1	2802	MYGTGYRDVAGKWAIDPDSK REFLDVTOEQIGQCDPSGTCRQ TSLILTOPLRQWGLEGIKKPN WIIEESVSNGGPPLIPRQTAS GVDLQQTPTDQLRLVTVRRK TNKQKGIASSTKRTSTPKPHL YVTIHKDSYIKPQRWGKNIAE KLKILKIRVALSLQRNAAPHQ WNKAGRRMSLMSSQKKASEVI ESQMNEIKGEEKFREKRVKRNE QSLQEIWYVVRPDLRLIGVPD SDGENGTRLENTLQDI
14890	45258	A	14977	1	2739	
14891	45259	A	14978	1	2478	
14892	45260	A	14979	590	727	
14893	45261	A	14980	1	3255	
14894	45262	A	14981	1	3810	
14895	45263	B	14982	1	3127	
14896	45264	A	14983	1	3325	
14897	45265	B	14984	1	1734	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, \=/possible nucleotide insertion)
14898	45266	A	14985	1	2067	MELKTKARELREECRLRSRCD QLEERVSADEMEDEMNMKREG KFKREKRIKRNEQSLQEIWVYVK RPNLHLIGVVPETDGENGTLEN TLQDIIQENFPNLRQANVQIQE IQRTTPQRYSSRRATPRHIIVRFT KVEMKEKMLRAAREKEIQTIR EYYKHLHANKLENLEFMDKFL DYYTLPRLNQEKVESLNRPTG AEIVAIIN/SLPTKSPGPDGFTA EFYQRGILPNSFYEAIIPLKLG RDTAKKENFRPISLMNIDAKILN KILAKRIQQHIKKLIHHDQVGF PGMQGWFNIRKSINVIQHVNR KDKNHMIIISIDEKAFDKIQPF MLKTLNKLGDGMYFIIIRAIYD KPTAHILNGKKLEAFPLKTGM RQGCPLSPLFNIVFKVLARAIR QEKEIKGILGKEEFKLSLFADD MIVYLENPVSAQNLLKLISNFS KVSQYKINVSQSTFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFKENYKPLLKEIK EDTNKWKNIPCSWVGRINIVK MAILPKVIYRFNAIPKVPMTFF TELEKTTLKFIWNQKRACIAKSI LSQKNKAGGITLPDFKLYYKAT VTKATWYWYQNRDIDQWNRT EPSEITPHIYNLYIFDKPEKNKQ WGKDSL FNKWCWENWLAICR KLKLDPFLLPYTKINSRWKD
14899	45267	A	14986	1	1293	
14900	45268	A	14987	1	3229	
14901	45269	A	14988	1	3352	
14902	45270	A	14989	1	1419	

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14903	45271	A	14990	1	1716	MKAIEIKMFFETNENKDDTTYQN LWDTFKAVCRGKFIALNAHNR KQERSKIDTLTSQLEKEKQEQ TYSKASRRQEITKIRAELEIET QKTLQKINESRSWFFERINKIDR PLARLIKKRQKNQMDTIKND KGDITDPTETIQTTVREYYKHL YTNKLENLEEMDKFLDITYTLPR LNQEEVESLNRPTGAIEIVAIINS LPTKKSPGPDGFTAIFYQRYKE ELPGRDPTKEENFRPISLMNIDA KILNKILANQIQHIKKIHHDDQ VGFIPGMQGWFNIRKSNINVIQHI NRAKDKNHMIMSIDAFAKFDKI QQPFMLKTLNKLVLVLEVLARAIR REKEIKGIQLGKEEVKLSLFAD HMIYVLENPIVSAQNLLKLISNF SKVSGYKINVQKSAFLYTNNR QTESQIMSELPFTIASKRIKYLGI QLTRDVKDLFRENYKPLLKEIK EDTNKWKNI PCSWVGRINIVKV AILPKVIYSFNAIPKIPMPFTEL EKTTLKFIWNQKRARIKSLISQ KNKAGAITLPDFKLYYKPTVTK TAWYSYQNRDMDQWNRTEPSE ITPHIYNYLIF
14904	45272	A	14991	1	702	



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14905	45273	A	14992	473	2385	HSFLSFIVLMYLTMDLTRSQKH GWASSPSHGTSPWPVRLRTSLA KPKCKWQVSLCWVLSASPGSSF SLVRSLLIIVPHAESVSRRLPSLL SRVGLFPARY*HRVWQSRSPSQ TRDHLIKRNPQDV*RRQQPRG TRVSNKCSLHTSALGGRQPSC DATL*GQQGLP/VK*KRQQPAP/ MSQQQTGAALVLAIRAIQEK EIKGIQLGKEEVKLSLFADDMI VYLENPTVSAQNLLKLSNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMSELPFTIASKRITYLGIQ LTRDAKDLFKENYKPLLEKEKE DTNKWKNIPCSWVGRIIVKM AILPKEPGWARSLVFGARGLQG QGRCGQSRGGGSCGGGGST ENWQHREPSARKTGSTENRRH REPAAPRTGSTENQHREPAAPR TGTENRHREPSARKTGSTENRR HREPAAPRTGSTENQHREPAAP RTGSTENRHQEPAPRTGGTENR QHREPAAPRTGSTENRHREPAAP RTGSTENRHREPAAPRTGSTEN RQHRESAAPRTGSTENRHQEP APRTGSTENRHREPSAPRTVGTE NRRHRELVAAPRTGGTENPREP PAGTRPRHPTMRGGSEGALFH QRRFLEPTPDREQLEGIRYPPVA

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14906	45274	A	14993	687	2274	LRDCKRINQHPVKTDQSAFCK M/API/MQDVVLEVLARAIQEK EIKGIQLGKEEVKLSLFADDMI VYLENPVSAQNLLKLSNFSKV SGYKINAQKSQAFLYTNNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEITEDT NKWKNI PCSWVGGRINIVKMAIL PKVIYRFNAIPKLPMTFFTELE KTTLKFIWNQKRARMASILSQ KNKAGGITLPDFKLYYKATVT KTAWYWYQNRDQVQWNRTEP SEITPHIYNYLIFDKPDKNKQW GKDSL FNK GWENWLAICRKL KLDPLTPYTRINSRWIKDLNV RPKTIKLEENLDITIQDIGMGK DFMSKTPKAMATAKIDKWDL IKLKSFCIAKETTRVNRQPTKW EKIFATYSPDKGLISRIYNELKQI YKKKTNNPIKKWAKDMNRHFS KEDIYA AKKHKRCSLSLAIRE IQIKTTMRHYLTPVRMAIHKSG NN/R/CF*WQKPGPSG*ALRSWK EDIAGTSYVGMNQCMRKNKTK TLI
14907	45275	A	14994	1	3189	
14908	45276	A	14995	1	3351	MGKKQNRKTGNSKMQSASPPP KERSSSPATDQSWMENDFDEL REEGFRRSNYSELREDIQTGK EVENFEKNLEECITRITNTEKCL KELMELKTKARELREECRLRS RCDQLEERVSAMEDEMNMK QEGKIKRKDEGHYIMVKGSIQQ EEL.TILNIYAPNTGAPRFKQVL SDLQRDLDSHTLIMGDFNTSLL TLDRSMRQKVNKDTQELNSSL HQADLIDYRTLHPKSIETYFFS APIHTYSKIDHIVGS
14909	45277	A	14996	1	3192	
14910	45278	A	14997	1	2742	
14911	45279	B	14998	1	2313	
14912	45280	A	14999	1	1542	
14913	45281	A	15000	1	3300	
14914	45282	A	15001	1	1824	
14915	45283	A	15002	1	2982	

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14916	45284	A	15003	1	2375	MSGFLISPKHKHGTNSGIVSWA DVQSQLRHIEAFAFDQEA AAVL MARLGVFRAESEEQPDVLRWL DRQLIRLHSLTTLDIVPAGKGE VVKGPMSISQAKGCKFGQY NKEDPTSFRLSDFSLSYPQFMF HLRRSPFLQVFNNSPDESSYYR HHFARQDLTQSLIMIPIYSYS FHGPPPEVLDDSSILADRILM DTFFQIVIYLGETIAQWRKAGY QDMPEYENFKHLLQAPLDDAQ EILQARFPMPRYINTEHGGSQK KREKNQIDAINKDKGDITTEPTE IQTITREYYKHL YANKLESLEE MNKFLDTYTLPRLNQEEVESLN RQITGSEIEAIIINSLPTKKSPGPD RFTAKFYQRTNDQKHMISIDA EKAFDKIQPFMLKTLNKLGDID GTYFKIIRAIYDKPTANIILNGQ KLEAFPLKTGTRQGCPLSLLLF NIMLEVLAIRAIQKEIKGIQFG KEEVKLSLFADDMIVYLENPIV LAQNLLKLISNFSKVSQYKINV QKSQAFLYTSNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLNEIKEDTNKWKNI PCSWVGRINIVKMAILPKVIYRF NAIPKLSMTFFTELEKTTLEFI WNQKRARITKSILSQKNKAEGI TLPDFKLQYKATVTKTAWYSY QNRDIDQWNRTEPSEIVPCIYN YLIFDKPDKNKKWGKDSL FNK
14917	45285	A	15004	1	1428	
14918	45286	A	15005	2	1975	

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14919	45287	A	15006	1	3891	MKPEIKMFFETNENKDDTYQNL WDTFKA VCRGKFIALNAHKRK QERSKINTLTSQFKELEKQEQT NSKASRRQETIKIRAELEKIEITQ KPLQKINESRSWFFKINKIDRP LARLIKKKREKNQIDAINKDKG DITTDPTETIQTIREYYKHLN KLENLEEMDKFLDMYTLPLN QEEVESLNRPTGSEIAHNSLP TKKSPGPDGFTAIFYQRYKEEL VSFLKLFLQSIKKEGILLNLFYE DSIILKPKPGRDTTKKENFRPISL MNIDAKILIKILANRIQQHIKKLI HHQVGFIPGMQGWFNIRKSN VIQHINRTKDKNHMIIISIDAEKA FDKIQQPFMLKTLNKLGIHGT LKIIIRIYDKPTANILNGQKLK AFPLKTGTQRCPLSPLVFNIVL EVLAWAIRQEKEIKGILGKEE VKLSLFADDMTVVYLENPIISAQ NLLKLISNFSK VSGYKINVQKS QAFLYTNNGQTESLIMSELPFTI ASKRIKYLGLQTRDVKDLFKE NYKPLLNEIKEDITNKWKNIPCS WVGRINIVKMAILPKVIYRFNAI PIKLPMTFFTDLEKTLNFIWNQ KRARITKSILSQKNKAGGITLPD FKLYYTATVTKTAWYVYQNS MVLVVPKQRYRSEMQNRALRN NAACLQLSDL
14920	45288	A	15007	1	4215	MHSCLPDATEGELYNSLGLST WSFLSMIGVLLWVDFSGDSIDL CSPLWNRTNLEALQKKLEEL DEQQRKRLEAFLTQKQKVGEL KDDDFEKISELGAGNGGVVFK VSHKPSGLVMAKLIHLEIKPAI RNQIIRELQVLHECNSPYIVGFY GAFYSDEISICMEHMYVLQER PCPGFLWMENSDYGLLLPLDLL LCLSFSSKVLSDLVSDLIHGM KARNRSIHGDVVVVELLPKNE WKGRVTALCENDC
14921	45289	A	15008	1	2823	

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14922	45290	A	15009	1	3253	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQGDLDIYRTLH PKSTEYTFSSAPHHTYSKIDHIV GSKALLSKWKRTEITNYSLSH SAIKLELRRIKNTQSRSTTWKLN NLLNDYVWHNEMKAEIKMFF ETNENKDTTYQNLWDAFKAVC RGKFIALNAHKRQKERSKIDTL TSQLEKEKQEQTHSKASRRQE ITKIRAELEKETQKTLQKINESR SWFFERINKIDRPLARLIKKKRE KNQIDTIKNK
14923	45291	A	15010	1	2816	MEDEMNMKREGKFKREKRIK NEQSLQEIWDYVVKRPNLHLIGV PESDVENGTKLENTLQDIIQENF PNLARQANVQIEIQRTPQYRS SRRATPRHIIVRFTKVEMKEKM LRAAREKGHCNSGKSHRSLWE QNKGIFFTCICDDAEDLQSPSTA GPWFGVLYTKGGPYQEDIFSE EVHTGPKLRKKIQEYQLTSKWS KSDVQVSVERRMAGGNPQCH IGEVLDDGFTAIFYRRYKEELV PFLKLQFSIEKEG
14924	45292	A	15011	1	3347	MGDFNIPLSTLDRSTRQKVNKD TQELNSALHQADLDSYRTLHP KSTEYTFSSAPHHTYSKIDHILG SKALLSKCKRTEITNYSLSHSA IKLELRRIKNTQNCSTTWKLN LLNDYVWHNEMKAEIKMFFE TNENKDTTYHNLWDAFKAVCR GKFIALNAHKRQKERSKIDTLT SQLKELEKQEQTHSKASRRQE TKIRAELEKETQKTLQKINESR SWVFERINKIDRPLARLTKKKS EKNQIDAIKNDK
14925	45293	A	15012	1	3855	MGGKQNRKTGNSKTQSASPPP KERSSSPATEQSWMENDFDEL EEGFRSSNYSELWEDIQTKGKE VENFEKNLEECITRITNTEKCLK ELMELKTKARELHEECRSLSR CDQLEERVSADEMNMKRE GKFKREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIIQENFPNLARQANVQ QEIQRMPQRYSSRRATPRHIIVR FTKVEMKEKMLRAARQKAPH HTYSKIDHIVGSKAL
14926	45294	A	15013	1	2559	
14927	45295	A	15014	1	2956	

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14928	45296	A	15015	1	1853	MGRNQSRKAENSKNQSSAPP KDCSSSPAMEQSWTENDFDELT EVGFRRSVITNFSELKEHVETNL KEAKHLEKRLDKWLTRIKSVE KILNDLMELKTMAQELHDTCTCR SFNSQFNQVEERVSVIDQINE MNIDGTYLKIIRAIYDKIPPRNII LNQQKLEAFPLKTGTGRQCPLS PLLFNIVLEVLARAIRQEKEIKGI QLGKEEVKLSLFADDMIVYLEN PIVSAQNLLKLISNFSKVSQYKI NVQKSQAFLYTNRRQTESQIMS ELPFTIASKRIKYLGIQLTRDVK DLFKENYKPLLKEIKEDTNKW KNIPCSWVGRINIVKMAILPKVI YRFNAIPIKLPMTFFTELEKTTL KFIWNQKRARIASILSQKNKS GGITLPDFKLYYKATVTKTA/W L/YHTPLSCLPP*WNRTEPSEIIP HIMAVAQIQQVKLLLLQGQHA SSRLQPTSSTKCGGWTAASSAP RSMGLSSWKGNLASAIHYFPCK PLTLPSRISTSSSSWGCRQAHAV LEVLRWPPGLGWPGWIHLTL HVPPVRITKSNGPRACTRASAS HARHHQYNQFPLSPLHSPLPP PEQVLVSTAERTEDRSYHRTL RHSPYFKNEAADLRGEGYSS
14929	45297	B	15016	1	3276	
14930	45298	A	15017	1	2274	
14931	45299	B	15018	440	3383	
14932	45300	A	15019	1	2646	

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14933	45301	A	15020	1	2229	MGKKQNRKTGNSKTQASAPPP KERSSSPATEQSWMENDFDEL EEGFRRSNYSELREDIQTGKE VQNFKEKNLEECITRITNTEKCLK ELMELKTKARELREECRLSR CDQLEERSAMEDEMNMKRE GKFREKRIKRNEQSLQEIWDYV KRPNLRLIGVPESDVENGTKLE NTLQDIQENFPNLRQANVQI QEIQRTPQRYSSRRATPRHIIV FTKVEMKEKMLRAAREKEIQ TIREYYKHLVANKLENLEEMD TFLDTYTLPRNLQEEVESLNRPI TGSEIVAIINSLPTKKSPGPDGT AEFYQRYKEELVPFLKLFQSI KEGILPNSFYEAIIIPKPGRDT TKKENFRPISLMNIDAKILNKIL ANRIQQHIKKLIHHDQVGFIPG MQGWFNIRKSINVQIHINRAKD KNHMIISIDAFAFKIQPFML KTLNKLIGIDGTYFKIIRAIYDKP TANIILNGQKLEAFPLKTGTQR GCPLSPLLFNIVLEVLARAIRQE KEIKGIQLGKEEVKLSLFADDM IVYLENPIVSAQNLLKLIISNFSK VSGYKINVQKSQAFLYTNNRQ TESQIMGELPFTIASKRKYLGIG LIRDVKDLFKENYKPLLKEIKE DTNKWKNIPCSWVGRINIVKM AIPKIGKTTLKFIVNKSRIAK SILSQKN/KAGGITLLTQLYYKA TVTKTAWYWYQNRDIDQWNR
14934	45302	A	15021	1	960	
14935	45303	A	15022	1	2928	MEDEMNMKQEEKFREKRIKR NEQTLQEIWDYVKRPNLHLIGV PESDGENGTKLENTLQDIQENF PNLRQANVQIQEIQRMPQRY SSRRATPRHIIVRFTKVEMKEKM LRAAREKDRSMRQKVNKDQTE LNSALHQADLIDYRTLHPKSTE YTFFSAPHHTYTKIDHILGSKAL LRKCKRTEITNYLSDHSAIKLE LRKLNLTQNRSTTWKLNLLLN DYWVHNKMKAEIKMFFETNEN KDTTYQNLWDAP
14936	45304	A	15023	1	1782	
14937	45305	A	15024	1	4881	
14938	45306	B	15025	1	5962	

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14939	45307	A	15026	1	2053	MKAIEIKMFFETNKNKDDTTYQN LWDAFKA VCRGKFIALNAHKKR KQERSKIDLTLSQLKELEKQE THSKASRRQEITKIRAELEKEIET QKTLQKINESRSWFFERINKIDR PLARLLKKKREKNQIDAINKDK GDITTDPTIEQTITIREYYKHLYA NKLLENLEEMDKFLDTYTLPRLN QEEVESLNRPIITGAETVAIINSLP TKKSPGPDGFTAELYQRYKEG AVLEVLAIRAEKEIKGIGLQ KEEVKLSLFGDMIVYLENPIV SAQNLLKLISNFSKVSQYKINV QKSQAFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTRDVKDL FKENYKPLLNEIKEDTNKWKNI PCSWVGRINIVKMAILPKVIYGF NAIPKLPMTFFTELEK/TT*KFI WNQKRARIK*ILSQKNKAGGI TLPDFKLYYKATVTKTAWYW YQNRDIDQWSRTEPSEIMPHIY NYLIFDKPDKNKKWGKDSLNF KWCRENWLAIKRLKLDPLFT YTKINSRWIKDLNVRPKTITILE EKLSTNIQDIGMGKDSMSKTPK AMATNVKIQKWDLIKLSFCT AKETTIRVNRQPTTWEKIFATY SSDKGLISRIYNELKQIYKKKTN NPIKKVVKDMNRHFSKEDIYA AKKHKMKCPSLAIREMQIKTT MRYHLTPVRMAIIKSGNNRC
14940	45308	A	15027	3	3229	
14941	45309	A	15028	1	3907	MGDFNTPLSTLDRATRQKVNK DTQELNSALHQAADLIDYRTLH PKSTEYTFPSAPHHTYSKIDHIL GSKALLSKCKRTEITNYLSDHS AIKLELRKLNLTQNRSTWKLNS LLNDYWVHNEMKADIKMFFE TNENKDDTTYQNLWDTFKAVCR GKFLALNAHKKKQERSKIDTLT SQLKELEKQE/THSKASRRQE TKIGAELKEIETQKTLQKINESR SWFFERINKIDKPLARLIKKKRE KNQIDAINKDK
14942	45310	A	15029	1	4005	
14943	45311	A	15030	287	2708	
14944	45312	A	15031	1	4602	
14945	45313	A	15032	1	4806	



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14946	45314	A	15033	965	5928	TWKGTTSTRCKIMPKYRSTRQ KVNKDTQELNSALHQADLIDIY RTLHTKSTEY/TFFSAPHHTYSK IDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRKLNQSRSTT WKLNNLLNDYVWHNEMKAE IKMFFETNENKDTTYQNLWDA FKAVCRGKFIALNAHKRKQERS KIDTLTSQKLEKQEQTHSKA SRRQEITKIRAELEKEIETQKTLQ KINESRSWFFERINKIDRPLRLI KKKREENQID
14947	45315	A	15034	383	8708	
14948	45316	A	15035	2	3257	WRKIYQANGKQKKAGVAILV/S DKTDFKPTKIKRDKEGHYIMVK GSIQQUELTILNIYAPNTGAPRFI KQVLSDLQRDLDSHTLIMGDFN TPLSTLDRLMRQKVNKDTQEL NSALHQVDLIDIYRTLHPKSTE YTFFSAPHHTYSKIDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRKLNLTQSRSTTWKLNNLLN DYVWHNEMKAEIKMFFETNEN KDTTYQNLWDAFKAVCRGKFI ALNAYKRRKQERS
14949	45317	A	15036	1	3508	MELKTKARELREECRSLRSPCN QLEERVSAEMEDEMNMKREG KFRDKRIKRNEQSLQEIWDFVK RPNLRLIGVPESDGENGTLEN TLQDIQENFPNLAQANQIQEI QRTQRYSSRRATPRHIIVRFTK VEMKEKMLRAAREKAPHHTYS KIDHILGSKVLLSKCKRTEIITN YLSHSAIKLELRKLNLTQNHST TWKLNSLLNDYVWHNEMKAE EIKMFFETNENKDTTYQNLWD TFKAVCRGKFIALN
14950	45318	B	15037	1	4760	
14951	45319	A	15038	1	3110	
14952	45320	A	15039	1	5546	MELKTKARELREECRSLRSTRN QLEERVSAEMEDEMNMKREG KFREKRIKRNEQSLQEIWDFVK RPNLRLIGVPESDAENGTKLEN TLQDIQEDFPNLAQANVQIQE IQRTQRYSSRRATPRHIIVRFTK VEMKQKMLRAAREKDFKPT KIKRDKEGHYIMVKGSIQQUEL TILNIYAPNTGAPRFIKQVLSDL QRDLDSHTLIMGDFNTPLSTLD RSTRQKVNKDTQELNSALHQA DLIDIYRTLHPKSTE

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14953	45321	B	15040	1	4534	
14954	45322	B	15041	1	1826	
14955	45323	B	15042	1	1626	
14956	45324	A	15043	248	1212	NSKHYSRGQKKKLPTLPRAAN SRWRSLLK/GFTVSFDETLKPFV RDVSGSRLKDLKPKNKSDDETR ANDAVNRYKLLKKDARTIAAQ QVARLESAMCLRRRWLENFQ LFLVEHPLVRHLTRRLIWGVYS AENQLLACFRVAEDNSSSTADD DLFTLPEGDISIGTPHVLISPTD AAALLFADYELLPPFRQLDRNS YALTEAERNASELTRWAGRKC PSGRVMGLANKGWIKGEPQDG GWIGWMIKPLGRWSLIMEIDEG FAVGMSPAELSAEQLLSKLWL WEGKAERYGWSNSTQEAQFS VIDAITASELINDIEALFE
14957	45325	A	15044	1	1788	
14958	45326	A	15045	1	3048	
14959	45327	A	15046	1	3546	
14960	45328	A	15047	969	1205	SPVRCCISAVHRTYHRRTSALL RLAELHRLLEKCSARQWMYEN I*SPFRQIA*CLPYS DHKNQRLH GLDSIFLARLLW
14961	45329	A	15048	877	1248	WPLTVPYCGVGYAS*A*VADN HRAVGYLSRWAGRKCPSGRV MG/LANKGWIKGEPQDGGWI/G WMIKPLGRWSLIMEI/DEGFAV GMSPAELSAEQ/LLSKLWLWEG KAERYG/WGSNSTQEAQFSVID
14962	45330	A	15049	854	1313	DHGVASAAATCVYTNHGRQSY VRVCEYASRTRVSHHCSV*RVL RCEAIRIVSPDRSC*RDPEFSYL ALPENYNRLFLPNSTNQTNRI KTLNSIAIGKLLAAGGVYNGNI EGFRDTAEKLDGRTIDGYDQIL NEKTAVIAKATA/SILLTKRS
14963	45331	A	15050	1010	1396	KPFGKLYKLFEGHAWLVKAE KVRVGYYRLRLTYPFDIRFPAL PFGLVL*KGAHFTVPRIWAGHA C*LMPMALPMFRWKVTGLLFIP ICLVKPSFLTLTHIAIRRISTSTN CRKTPKQPSRWCKPR

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14964	45332	A	15051	361	837	DGQQLIALHRLALREIQQAVH AGLPQQAQKILFDGGSEIGKIPSEI YFCQLVKLILCPVLFPWCRRVA ILWRRRDVLFSGSFSALVSPH LCG/SYLPFVFDVGDRL*LSVG WSKEIWPCK*GFGHLMVSLNT PMKSLVEGFKHFPLAGFGYEYL SFFCR
14965	45333	A	15052	1563	1652	
14966	45334	A	15053	2756	2995	AMRSAHRCVTFSAALLNCWQITP HLTPSVMICGQLLTLVNRCPSS TIFSIPLSKQVARMFRSAMSPL NRARCWKVPCN
14967	45335	A	15054	762	2184	WRAPSEPISEILKADTEKYVY L*NSSSAQYSGSCTRAYYLDLTDQ HPTPRLCLIFGGKDSGLMLHLT AELARQMGKKICVLFIDWEAQ FSCITNYVQSLRELYTDVIEEFY WDALPLTTQNSLSQYQPEWQC WEPDVEWVRQPPQDAITDPDF CFYQPGMTFEQFVREFAEWFSQ KRPAAMMIGIRADESYNRFVAI ASLNKQRFADDKPWTTAAPGG HSWYIPIYDWKVADIWTWYA NHQSLCNLYNLMYQAGVPLR HMRICEPFGPEQRQGLWLYHVI EPDRWAAIGSPADREDAEEYL EAIMEARVTVAGMGLVMEVQ DYFDGEADRLAKAWLAEYTPQ IKSLKDERKEAYRQIVEMSTEP QDVDLVRPANKFEMTRVREG KEADLPVWKHLLCDESGNYP ALLNHWETKVFEIETKREGFAF WYRNPOYTQSSSLGIAYVEAE QYKIVRPDLFFAEQDGKMOVV
14968	45336	A	15055	2069	2586	PWLENLPVGCWSAVKMGGT RSLVSL/AVTLVSPQLMAYL LGQQLPEVWDFGMFSIAKVG YQAQVIALYLVVVVPCSLILAV FLAHALIGPFRMIGDGVAFV RHLMTGSFAPIGAALFGFLYAP LVITGVHQTTLAIDLQMIQSIGC TPVLPVNALSIDLWHISILV

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14969	45337	A	15056	356	1205	APASMTFEQVRFVA/VMVFTK RPAAMMIGIRADESYTVLSPSP V*INNVLPTITWTFPQTIYDFLW LIGEAIF/YLPVGICWSAVKKM GGTRSLVSL/AVTLVSPQ/MN AYLLGQQLPEVWDFG/VCSLIL/ AVFLAHLALIGPFGRM/GDGVA FAVRHLMTGSA/PIGAALFGFL YAPLVIT/GVHQTTLAIDLMM QSMGGTPVPWPLIALSNIAQGS VIGIISSRKHNREIPGEVFPRT GVGKGLSLG*PLH*LQPYRQHL GAGSYSQTLKKQIAESAVRLSIP
14970	45338	B	15057	1	435	
14971	45339	A	15058	2	1785	WLLYRAHVKG/STEALLPNM VATSLAKLPIPKLMRWGATYV HFVRPVHTVTLGDKVIPATIL GIQSDRVIRGHRFMGEPTIDN ADQYPEILRDSGKVIADYEERK AKIKADAEAAARKIGGNADLSE TLLEEVASLVWPPV/LTAKF/E EKF/LAISRTALVPYSADNMYQ LVNDVQSYPPQLPGCTGSRLES TPGQMTAAVDVSKAGISKFTT RNQLTSNQSLMNLVDGPFKKL IGGWKFPLPSQEAACRIEFHLD FTNKLIELAFGRVFKELAAANMV QAFTVRAKEVYSASMRYYIVIV YISYRPPNLLDSHIGFSSITTHC AVTSHHYNCDMTMTIHSYVT PYISVRVSLTQTYAPSPSRNLRI TDLTIYRAISSEKSIDTRHIHTI ESRCRVCGAHDSDAERLDRF AQTADEIRIADRGFSSRPECIRS LAFGEADYIVRVHWRGLRWLT AEGMRDFMMGFLRGLDCALIS KTRLLSENRRKGRVVQAETLE AAGHVLLLTSLPEDEYSAEQVA DCYRLRWQIELAFKRLKSLHL DALRAKEPELAKVGIFANLLAA FLIDDIIQPSLDFPPRSAGSEKKN
14972	45340	A	15059	1	993	

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14973	45341	A	15060	1	5621	MSEKTLFLVEIGTEELPPKALRSL AESFAANFTAELDNAGLAHGT VQWFAAPRRLALKVANLAEAG PDREIEKRGPAIAQAFDAEGKPS KAAEGWARGCGITVDQAERLT TDKGEWLLYRAHVKG/EGTEA LLPNMVASSVAKLPIPKLMRW GASDVHFVRPVHTVTLLGDK VIPATILGIQSDRVIRGHRFMGE PEFTIDNADQYPEILRERGKVIA DYEERKAKIKADAEEAARKIGA KAWGTNVEFHVQNPQ
14974	45342	A	15061	82	732	
14975	45343	A	15062	1	3849	MDLGGANGWQTFRYVVLPLNLS ALLAGGMLAFALSFDEIIVTTFT AEQVDAAVRAADAFAEWGQ TTPKVRAECLLKADVIEENGQ VFAELESSNNTAFARASSNGDL PTKADLQAQLDSLKNQKDLA QDKLVQQDLTDTLATLKDIDRI KEETVQLRQKVAAEPEKMRQA TAALTALSDVDNDEETRKLST LSLRQLETRVAQALDDLQNAQ NDLASYNLSVLQSTQPERVQ NAMYNASQQQLQIRSRDLG
14976	45344	A	15063	219	1186	PPKLGRKRGIPLPSHNPNTNRI CPNCCMNGVSTANTTSKSSLVI CAWTKHALLNAILQPEQLWKS GSRWRINLALPRGYRESLLQPW QAERLTDDKGEWLLY/RAHVK GESTEALLPNMV/ATSLAKLPI KLMRWG/ASDVHFVRPVHTVT LL/LGDKVIPATILGIQSDRVIAA TGKAKIKADAEEAAR/KIGGNA DLSESLLEEV/ASLVEWPVVLN AKFDEK/FLAVPAEALVYTMKG DQ/KYFPVYANDGK/LLPNFI/ VANIESKDPQ/QIISGNEKSFVR LADAEFF/NTT*KRLFLPHQKL PPSQILHQQTRNYASFCHRRHD NWTSA

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14977	45345	A	15064	1	1496	SGGCAGLHGGILCSKEPFQASV QQGVAGHACAPAAALQVPVCGT LSDCGSRAASLCENPFSISLYGR LVATSLAKLPIPKLMRWGASD VHFVRPVHTVTLALGDKVIPAT ILGIQSDRVIRGHRFMGEPEFTI DNADQYPEILRERGVADIYEE RKAKIKADAEAAARKIGGNAD AKFEKFLAVPAEALVYTMKG DQKYFPVYANDGKLLPNFIFVA NIESKDPQI/DRIQALAGWIAE QNGADVNHATRAGLLSKCDLM TNMVFEFTDTQGVMMGHYAR HDGEAEDVAVALNEQYQPRFA GDDLPSNPVACALAIADKMDT LAGIFGIGQHPKGDKDPFALRR AALGVLRIIVEKNLNLDLQTLT EEAVRLYGDKLTANVVDVVI DFMLGRFRAWYQDEGYTVDTI QAVLARRPTRPADFDWHALG RAGTGDVVGVGRGLAIVPLT DGLDEAGHSTGVLQGEVPQRL ERAFTVPGVTLQPPALQARGL
14978	45346	A	15065	134	384	VTPTGWRKRIRQWCSADAGCG VNALSLGRFHSALFSAAMFI LGVVSGITMSISP*ILSCVRSKNP LLVSGSGPLSCNSTIH
14979	45347	A	15066	1	723	TKSPKIARSRHPLCHFIFERRPI MTNSNRKLTWISFLSYALTGA LVIVPGMV MENIADYFNLPSVS MSNTFTFLNAGILISIFLNAWLM EIVPLKTQLRFGFLMLVLPVAG LMFHSLSALFSAAMFILGVVSGI TMSIGTFLVTQMYEGRQGYR LFLAASLFSMAGMIFPMIAAFL LAPSS*W*WVYACGLAYVTIF IMTFGCEFPALGKHAPKSYAPV EKVKWGILGGASSFRAV
14980	45348	A	15067	422	1045	LLEGKLTNRKQ*HQH*QKARPC KKPIQSAQN/WNREEDDELTEV GRRVWIITNSFELKEHVLQWK EAKNLDKRLQEGLTRITSLEKKI NDLMVLKNTARELHEAYTSINS RIDQAEERISEIEDQLNEIKLED KIRGKRJK/RQTNKQSL*KMWD YVKRPNRLIGVPESDEENVTE LENTLQDIHQENFPNLRQANIQ IQEIQTLLR
14981	45349	A	15068	1	1131	

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14982	45350	A	15069	383	756	LNPSNKLALINPAASPIIKGVDL TANQ/PCIAIDIPLYDADVQQE* CFPATVEALGEQIRQADGVVIV TPEYNYSVPGLKNAIYWLRL RQILVFLDAMVMNKPFGMGV IQNKVDPQTGKVIDH
14983	45351	A	15070	343	924	
14984	45352	A	15071	223	308	
14985	45353	A	15072	57	5546	NKMARKKFSGLEISLIVLFVIVT IIAIALIVVLATKTPAVIDEISDST STPATTRYTTNPSDSGKCPNVL NDPVNVRINCIPEQFPTEGICAQ RGCCWRPWNDSLIPWCFVDN HGYNVQDMITTSIGVEAKLNRI PSPTLFGNDINSVLFTTQNTQPN RFRFKITDPNNRRYEVPHQYVK EFTGPTVSDTLVDYKVAQNPF IQVIRKSNKTLFDTSIGPLVYS DQYLQISARLPSDYIYGIGEQVH KRFRHDL
14986	45354	C	15073	1	1818	
14987	45355	A	15074	493	576	
14988	45356	A	15075	381	498	
14989	45357	A	15076	48	514	LLLFLLLQSYDWSSESGKRQSAL HGRQKGLPKSPTAARGGSDPW PSCRHP*GPNRKRKRS/R*PMET APRRPSVSPALTPARPPGLTATP RLHPRPP/RSPNPSANLLRRPTP DT*AHATFGPGRSRHHFPGQLS TE/RRRSAEGGRSRNEASRRE GGE
14990	45358	B	15077	1	1116	
14991	45359	C	15078	249	332	
14992	45360	A	15079	710	1326	RAAGNCFPEPGFVKQLSAAAA VVAPAAAAATEGSIPTDGKSPSSI SHWPNPQKNVICKRRGRVEQE QAWKGR*RVVFLG*KSMRCP VDLLPQSCLCQRFHQ/GKWIL TKDYIIHSAKSGRWLDATTYE WGYKIEKDSRYSPQMQSAPKR WREELKRTGAPGAFHRWKVVL LVRTDKRSDSLRFSDNFGDCDI RMEKTFRTLME

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14993	45361	A	15080	602	1257	FGKRGRTITLCILAVGMLCCRK GHTKPRRRPGASPISTHLHSSPPI STHLHTSPPPHRRREAR\SGQ*R QSCGAAAR*PWW\NCDGWG PKCQRFKSH*DIAQPDEVSWGQ *PWAVGALAGPIH\PQASEGPL GCTPASICGSTRKPSKPLSKKPP QAARTSSSRIVIFTPISTRPPTQG QPEKAKSATPTNDLEGPSAKVK FVNFLMDETFPEPSFFI
14994	45362	C	15081	140	175	
14995	45363	A	15082	2295	3089	NLLGYQINPPLQIFWDKLLAV SERDSSVKEESGDVESDDTML* MLPCP*ETTEFSS*PFRJSS*LSS* STAQIPAECTCFAGGWYSIFCPQ RIEQETMCLL*SWQSEVAVSCE SPWPTALHHSHPNRAPPPCY/S KSTSSSLSPLENSG*QNRPPSLL ITSVLPLRITCLP*VSFIPPIMQLG GSFLSNDRL*QSFLPKNVSLF VSFPLI*GAVSKPAISFNTSVSPL LVSDIFFALSLLP*GLGTWLIPSS SLLLVIRGF
14996	45364	B	15083	143	1727	
14997	45365	B	15084	307	1017	
14998	45366	A	15085	1	959	MSRMGLLGFGERKELPNHPAV SEWPLTLVTGSSGTVAEGEGN LTTSGLFSIVPLHPDGVAAQGR HSSLPRWGSQAEALLTSQTVDG QAEMLLTPQTMGGQEEMLLTS QTTGEDFITRSTESGTHSKSHKG DEGEPRWMLGWMLWVCDIAE PLVKAKLLDCKHTCCSVCLQQ TRTSQKDVRCWPWCSGVTKLPPD FSVSQLLDDPEVLAVITIPHASE HMPVFIRLPGSGCY\SCPCPSPRS TRCCPEI*AATCCPGTGRSPSL/C DHPCWTAASARQGSPPGGGGGG AGQAGHGKLVVVEGVHCHL GGLRLGLPPQHRAP
14999	45367	B	15086	112	672	
15000	45368	A	15087	2	530	SGRSAALLSARVNRSSQSFAGVL GSHERGPRSPFVSPGPPRKP ALSRVSRMFSVAHPAAKVPQPE RLDLVYTALKRGPDGLLGAVH QQEQEKLQGIRESKRNS/RLG EWREGFLYDLDKQVKSIEFRL RLEFHASKIDELYE\AYCVQRR LR\DGALHMGRA\YTTGSPGSR



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15001	45369	A	15088	216	1369	EPVLRRRPQPRAGAQGFPVFS PPGPPRKPALSRVSRMFVAH PAAKVPQPERLDLVYALKRG L/QAYLEVHQEQ/DKLQGOIR ESKRNSRLVMAGGVLTWTVV*E RGAVTSLASAGVLLIPPKYLPL LPTPAGLALYDLQKVKSIERFL/ RRLEFHASKVRVQHVCRWD/D ELYEAYCVQRRLRDGAYNMV RAYTTGSPGSRARDSLAEATR GHREYTE/DEGWGPMQRHRS MCLLES/ELEAQLGEFHLRMKG CAVDINDLGTIKLSLEVTGAAS SVNKASTVTKRSPPIARAHRT PHFGNSFLSTRKPNTYTANHRR RPIEQHPDMRTPPPPHRARTNT GRKDKVRAHEGEKATPTRTRG APHGKAQRLRLPLYQYVTIATLS
15002	45370	A	15089	1	940	MSYNSKNYVETITTMNSVKFG ETTPRNRTHYLSTNEKIFLSGV FSNAYPAGLSRGWDSPPWGSTP WVRHFCYLSSTQLCDQNCSSL SLLPAGPSVCNRLLASAWQKSS SSASSEASETCQSVSECSPTSD WSKVGSHEQPSGATLQRRKDR VE/PCETQSPGPASGGTLGPSGE EAPRPRMSPATIAAKHGEVSP AASDLAMVLTIRGMSL*HQKSS RDSLQYSSGYSTQTTTPSCSED TIPSQGRPAGLGPTKPVSIESTYL QSPQRLKQEWATEGKIQLPPQ IQVNVNFQVDSSPSLPLIMVPEH MHVS
15003	45371	B	15090	1	777	
15004	45372	A	15091	26	336	KISPMINVCSESSPSGERRGA* TPPSPQSPGCGPKPS/PPSCSPSR NYFLLFQGLCAEHPALAAPAAS VGTCPSPASGTHAAAPSGPWGR RCVHSGPGGRLW
15005	45373	C	15092	46	423	
15006	45374	A	15093	1773	2219	ELDYLYCSNSSAQCPGALLPSL ALPGPAGSARQAQSPARRLCAP VQPSGRWPAPGGPGFPGSSCPA SPTRQ*LLTSGSGCPRPCHHPSG PPQ*QSTQAWDWVILGPAHAG PSGQRCERCLPSRPSGPQTHSG VGSEPRAVRGPVGSFV
15007	45375	B	15094	1	7916	

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15008	45376	A	15095	16	545	GLPWQRHVRVEECGRS/PLRPC SPGTPSPS*PLPAATRGATCQS LSGLQPEKTT/SPS/CAAVAHER PPGPVPQCPAQGTGLIF*EGWT QPQIQRGPHPAHE/CAHDLQ QAAPGPGGAHQG/PSQPG*PDR QPDRAERAVVHPGAQ*DAEIQPG LPGEGGPLATRTERSPAQRPS QARG
15009	45377	A	15096	320	1167	MDLKTAVFNPARDGKLRLLTK *WASKSKEEVSSISEKTNGAT PLLMAARYGHLDMEVFLLEQC SASIEVGGSVNFDGETIEGAPPL WAASAAGHLKVVQSLNHHGAS VNNTTLTNSTPLRAACFDGHLE IVKYLVEHKADLEVSNRHGHT CLMISCYKKGHEIAQYLLVKG ADVNRSKSVKGNALHDCAESG SLDIMKMLLMYCAKMEKDG GMTPLLSASVTGHTNIVDFLTH HAQTSKTERINALELLGATLFT QKEISCDSESGRTRDLSPPRKPPH
15010	45378	A	15097	187	623	KLKTKNNIGPOACNSQLASVS TRSPPTLSVPIIMTDDSQASQL LLAAVTIRKLWSRMAPMLALP TGQSGQTGAEGQGKEGERGQS PCWKPRLDPKLC/EPQPAQLL* ADVCTGP/CGVRGCPADCRLLP LSPSSAQPKAESRSA
15011	45379	A	15098	789	1041	
15012	45380	A	15099	707	1373	SAWPSCHCHLDILSR/PGDDA CSVQILVPGLKGDAEGKDGK APGRPGRVPGTGEKGEKGDG DIGPPGPNGEPGLPCECSQLRK AIGEMDNQVSQLTSELKFIKNA VAGVRETESKIYLLVKEEPYA DPPLSWQGRGGTSLMAQDEAV HGLKGAYLQARLGRGFIGIHR PWKRRAPLLLF*TLSPRSF*KG DGGGNTQKGRKKRELAGQIW GPCIRR
15013	45381	A	15100	79	420	WRRFLFLGLVFRGYLGCLRSRS VLGRLKVSMDRIFFACGCGHL STLPSWPLRPSLWRL*EEQELP SLSVSPSSGRSASRL*LGWRGF GPSPSRLTVQFSGGRRAGQPS
15014	45382	A	15101	3	284	
15015	45383	C	15102	83	112	

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15016	45384	A	15103	84	303	EEQELPSLSVPSCLWGPCPRAG WLHSLHWPVSHSFSAITSTFGM AIWT*SLASGIKPQSSSKVSSRIQ VPPTM
15017	45385	B	15104	112	462	
15018	45386	A	15105	326	1323	DRKAINLQVKLEGAVAL*KPVG EAQLEFGKALGLFQ/STLGHFF VNNKEKILGDF/QEATLQAATK LTRGRSLVMENMEQLLSMRME DQSQRNMPLSVVLIREKAHSPF ENRKQEQGEGASPENFRAR/QG *FLAFKAAPPA*AASGPAAQER SVQEPSVNAPG*IPEGGLHTLA GVHHE*ALAWCSPLNKPFLW KRLP/SRTFHFPPVEDESAAGSKP SGDLLTLLGGNAAGDFKLK/P CLVYPSENPCFLKGSFKPNLPL VWCSSHKKA/WVQPG*QSETPFQ KKKKKKKKA/WVTMSLFQEW LHFCSTVE/ARCTQYDLQYKGL PILDSTPGHPCG
15019	45387	A	15106	3	375	HASAHASGLQSSYQAVKESS EALFEMKRDLTFTQVVOHDT ACTIAATASVVEKELATEGSSG ATEKMKKGLSDFLGVISDTFAP SPDKT/STAMSSPYDGTKARLY SLQSDPATYCNEDPGPP
15020	45388	A	15107	184	377	YCTNNQKVN*KTEIITKRKTPSR QKKDASAFSPSHPLTEGLK/WND LTLVSLSLTHDGFVWRRGKGV
15021	45389	A	15108	3	816	SWEDVGWWRSLWQQSYQAVK EKSSEALEFMKRDLTFTQVVO HDTACTIAATASVVEKELAI CSRACFLCPFSIQTEGSSGATE KMKKGLSDFLGVISDTFAPSPD KTIDCDVITLMTGPSGAEPYD GTKARLYSLQSDPATYCNEDPG PPELFDAWLSQFCLEKKGEISE LLVGSPSIRALYTKMPAAVSH SE/TFWHR/YFYKVHOLEQEQA RRDALKQRA/VSGDSCT*SGVL TNE*KGSWVRDTERVRSPLQQT FSEGVGWREC
15022	45390	A	15109	1	281	

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15023	45391	A	15110	1	1194	MGFLHLGQAGLEFLTSGSSDTI SEDWEKDFDLDMTEEEVQMAL SKVDASGEPPFCWKGYPGGEL ETLIRLLQKLFFLKTDPAFVLSP STLVKLHLWGNEGLQESLESV LHDAALVILVNPLEKKGEISELL VGSPSIRALYTKMVPAAVSHSE FWHRYFYKVHQLQEQAARRIA RLKQRAEQSISEEPGWEEEEEE LMGISPISPEAKVPVAKISTFPE GRTLAPQSPCEENLVTSVEPPA EVTPESESESIKSPPLTRALGTD
15024	45392	A	15111	213	1031	AGNKPDPWAGNRNRTAVLPDVS VFHREDVGVWRSWLQQSYQA VKEKSSALEFMKRDLTFTQV VQHDTVCTIAATASVVKELA TEGSSGATEMKKGLSDFLGV SDTFAPSPDKTI*RDVITLMGTP SGTAEPYDGTAKARLYSLQADP ATLLY*PDGPPFLFDWLSQFC LEEKKEISELLVGSPSIRALYT KMVPAAVSHSEFWHRYFYKVH QLEQEQA*RDALKQRAEQSIFE EPGWEEEEELMGILPIFPKEAK FPLAKISYIP
15025	45393	C	15112	414	557	
15026	45394	A	15113	98	467	
15027	45395	A	15114	1	155	
15028	45396	A	15115	16	94	RCPIASEASWTITD*RCPIASEAS WTITDALGNSYSGGMAF
15029	45397	A	15116	95	115	IIRHLCND*TPREGCLSP*PAW SDTFETWVNNQASLQ
15030	45398	A	15117	3	282	LKPVITCLLQLGLLKPINSPYNS PTLPVQKPDPRYSKPNSLP*LNP SLLQRNYTSIFLLTLNMPISICT TMLLYGQKEISSLHKGPPSLMP
15031	45399	A	15118	548	1401	SCTPCWHLTGRLWGITA VRQK RHVLSVDPKLRHQSRGTGKAAPF WCLIIAGTPL*LYTHVSRVSDH AGMPALVHLPLQQVPLFWGRG NTL*KD*SLLSLAC/VQHGLLKP INSPYNSPILPVVVKPDKPYKLQV NLRLINQIVLPIHPVGEAPVPLE TGGKSGKDCILWFECHLSHNTI EHQVSSSTFRIVVATGVLVSLH PQLYMAQNREHAECLESGESG REQESLSGNPENSRSLLTSRRY LYKSTRTIVLLGLAGPLKQKKL RSQHPSLYKYLQSRNKDSYR

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15032	45400	A	15119	144	298	WQVPLFWQPFPEPELEWPKA/HLTDSFPDLLGLAAED*RCPIASEAPCTQVI
15033	45401	A	15120	449	667	
15034	45402	A	15121	2	111	
15035	45403	A	15122	323	401	LLLGLAAED*RCWIASEAL*TITDAK
15036	45404	A	15123	2	593	CTLPSH*NLITLTPLNANIPSHGML*KD*SLLSLACYSTAF*GL*TPLTIPPFYLFKNQTRLTG*FRICPLSTKFLCSTPWCQTHILSYPPQYLPPQPIFLFWISNMLSLFLCTLYPSSLSSLGLTLTPIRLSKLPGPYCRKPSQTAPTSNHPSSFSGSWYSVETSYPSSSIFRKGRDTSWSLKDTPHQAQPPT
15037	45405	A	15124	354	630	
15038	45406	A	15125	29	354	RFLVSLMLPPAVVMLNHCYSLIFTNALVKRLFAWNMLSELATCAGNLATGPRNARSPGFLSCVP SVRDPTGNQTVQLTWQPLPEPLELWPKA/HLTDSFPDLLGLAAED
15039	45407	C	15126	1	576	
15040	45408	A	15127	377	624	RDQLQCLQLWDAGACYTCWK SATGPRNAHSTVFLLSHVPSVW DPTENRTVHLTWQPLPEPLELWPKA/HLTDSFPDLLGLAAED
15041	45409	C	15128	1	462	
15042	45410	A	15129	44	340	PCQTQGRLLTAGTPL*SFTHVS RVSDHAGTPALVLHP*RQVPLF WGRGNHISGTQELPNT*TA V/QAF/LPEPPPTG/CLLHVPEIWLPGQMPAGQDSS
15043	45411	A	15130	242	522	RLVWPATQRAWWSQSEAAAAK TVDLALSARNATSATGPRNACSPG FLLSCAPSVWDFTGNRVTQLTRL QPLPEPLELWPKA/HLTDSFPDLLGLVTEDE
15044	45412	B	15131	1	1080	
15045	45413	A	15132	1	642	

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15046	45414	A	15133	245	1033	TALLLTQSLFGGLFTQTRMKFG AVTRIGGPPLGDQSPVLLFFVPR ERSTYDLGPQTDQPKKHLTNFK STSFVFSSCIPPP*PSSISLLPPW/T TDHAPLTISL/TT*SPLPCSMPI/ ASHSML*KD*SLLSLACYSMAF *SL*TLTIPPFYLS*NQRRFTG* FRICALSTKLFCCLSTPWCQTHIL SYPQYLPQSIILFWISNVLSSLF LCTLHPSLSSSLGLTLTPFRLS KLPGLYCRKASQTAPITSVKPK FLPYLLPISA
15047	45415	B	15134	146	556	
15048	45416	A	15135	1	555	LTSFLHCLLSHHYHGAQIHPRH FLHLICRCHCHQYCHHAYLDPC PQDSHHHLHWCWQPLPEPELELRP KA/HLTDSFPDLLGLAAED*HCP IASEAALPPCFPRPDMITSRLQL QRRRQTALGVRYRNATYRTRT ASTNSLRPRGSPFPPLALVTNDR QVRSQALALWKRDRLLQLSPINR AISESSFT
15049	45417	B	15136	1	555	
15050	45418	B	15137	499	769	
15051	45419	A	15138	752	1111	MQPTIGNSQSVSRPTA*MPLAE SHPITQLVGTVTTPRVTPLSIRH PWRCRSANAGAMILTMKQLAI VMRVYQHQRVRRMRPGRNGA RSGMSAVGAYYSSCIRVM TAL QSCTGDDEAVLL
15052	45420	C	15139	1	632	
15053	45421	A	15140	1	375	PGVRGAQGGPSIPRQCEESAIGP KFAWIISSFFHWKQGMFNMEAP SSLFFVNMCAVKKQTTWGRPD RGFIWQPLPEPELELPKA/HLTD SFPDLLGLAAED*HCP IASEAPA LVYTAGLHCFKPSQ

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15054	45422	A	15141	1	1340	CSEYEDSSPAPVPATDLSSTLSS SVPQPDGTGTSQQHLPLDPWHE LLRAQELQGATNHKGYSAAEH EHAGLG VQGGNGALAFSNSGH RHAVPTISSGTGRRRTPSSSAFG LLNLHQWVFSGFQAFSDRLKA ALSASLLRFGSDSWLPSSSAC KCLMLGLHFVIVGNICATLKEK YSSMLHLDVTMKNKEKRTL QKRKKGMPPHAYEDLNIAAIT LPANVVLHQPSGFRTSGQLDPV WWSLDTD AHEIWCQDPGLGSG DFPWEITPLSSYSLLHEKDPPTT SGPQTDQPKHLTNFKSKTKET GFIHGPKTPAPVTDWEGSLPLV FNHSGTPL*LFTHVSRVSDHAG MPALVLHP*RVQVPLFWRGKI* LTSPSRCTIIEKSCNSLPPL*DKP QPHLQHTRTSKCLNRSGQAF/L PEPPPTG/CLLHVPEIWPLGQGM PAARDSS

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15055	45423	A	15142	2	2107	IDMIFTGPPSTPKHKKSQKGS AFTFSPQQSPRNEPYVARPSTSEI EDQSMMGKFVKVERQVQDMG KKLDFLVDMMHQHMERLQVQ VTEYYPTKGTSSPAEAEKKEDN RYSCLKTIICNYSETGPPEPPYSF HQVTIDKVSYPYGFHDPVNL RGGPSSGKVQATPPSSATTYVE RPTVLPLTLDSRVSCHSQADL QGPYSDRISPRQRSITRSDTP LSLMSVNHEELERSPGFSISQD RDDYVFGPNGSSWMREKRYL AEGETDTDTPFTPSGSMPLSST GDGISDSTVPLFLSSEILKQVVG QSITSMGLFSLRGSPMKLCMGL ACVLSLWNTVSGIKGEAKKEK GMTFLPTTDSKKFSLSVTSYS SFAFHKFSVAVYNISNLKTVD AKFPTTRYCYCLNNTDLSDF ALLVDIGNSTSYLTFKSTSL SVNQSNESDCIFCVMTGKSGR NLSDFWEIEEKYPINIYFTSGL SGVLALLLTQSLFGLFTRTRM KFGAVTRIGGPPPLGNQSPSSCSL LHEKDPPTTSGPQTDPKKHLT NFKSAARPTFLGQGQVPLNPF FTLS/EQVLLS*AARTPQSLISTP QPLISVPQSLISVPQPLLYFSGG QEPPPPPLLCVSSLFSLASFTM GAFTHGTQTPTSPTKATAPRYPQ TGDLSAEWFTTAGEEPVLVPRP
15056	45424	B	15143	1	930	
15057	45425	B	15144	401	1093	
15058	45426	C	15145	1	843	
15059	45427	A	15146	1	498	
15060	45428	A	15147	112	669	SLQGRLSDYTPTFQGCQTQGC LPWSFTLCSKSRFSGEGTRFKR IKACYHSPATAWPFKAYKLSLQ FPHFTRCKTRQALQVSSSEAPY QPNCFAYPFRGAEPHSPILNTS LHNPLFCSGSQTCFLY/SLCTL HPSLSLSLGLTLPIRLSKLPGL YCLKSSQTAITSVKPKFLPHLL PISA
15061	45429	A	15148	957	1100	



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15062	45430	A	15149	303	2028	LGSGDLPWEINPLSSCSLLREKD PPTTSGPQTHQPKHELTNFKSD KGD MFYPWTQN/YQCRSRTGK AAFPWCLITAGTPL*LYTHVSR VSDHAGMPALVLHP*RQVPLF WGRGKLLLRPS*VPILPQPPLL HPIIFLSPPLTPGPAYSFVL*LA LPHLPSNLLKRWLEPKA*SSM/ TLKGLKPVITRLQHGLLKPTN SPYNSPILPVLPDKPYKL VQD LRLINQIVLPHPVLGIHGLTSSV RRDAGQDLKRDRAEFLGDEV HHPHRRRIAEARRLLQGHEFDP LHRLIGQVLEGEARYAPPVEQ HHRLAPARRTGQRLHPLEQFG QAGRAQRNRNLGIEHRDLDRP DDGAGNALAGDGDFFRGCLFA GIGIRPRYCRYRQSQDDRRPSH AAPRPRALPIHPRPATPIADV VMFSVAIMSQRLRLVLRHIDGIS RWPPAVVFITDVKIWLVPYSD CRIRSNDRDDMQGEAPAMSMN AAARVGDPIGHISFSQGLFGEAL DGLFFARRSEVDMRAGNLGRLI ARGLSGGRWTPADGQLTLGSR DVFIGPPATMTIRSTGQCRCQH
15063	45431	A	15150	653	1076	RSKYPNLVSLCPSPLFPRPDLLS LWPNPLFLHPNLLYLCAPIPYFH APTSYLCPTPYFHDPTFPPLFW KELATSARNLATRPNACSPGF LLSCVPSVRDPTGNRTVQLTW QPLPEPLELWPKA/HLTDSFPDL LGAAED*CCPIASESP*TSDIIG RDTLLALKVQTVVLQTACGE GHVAGNCGRPLETEGSLQLTAT KKLRDSVLQPKSPEFCQQFTRA WNRITQVPDETEAPAGTYAAQS GDLPWEINPLSSCSLLHEKDPTT ASGPQTDQPKHELTNFKSGFRG VRPRRDACLGPSPLAASPAFLG KGQVPQPLLSVSLPLLRLSGGQ ETPNPFSFTLSGKSAFLEEQVPQ PRISVPQSLISTRPLISVAQSLIS APQPLISLCPNPLFPCPDLLSLHP NPLFPRPNPFAFLEGACYKCQ KSGHQAKECLQGIIPKLRPICA GPHWKSDDCPHLLAATPRAPGT LAQGSLLTDSFPDILLGLAAED
15064	45432	C	15151	234	449	

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15065	45433	A	15152	2095	2663	LGLGDLPEWINPPSSCSLLREKD PPTTSGPQTYQPKKHLTNFKSA CFERIKACYHSPAKAWPFKAYK LSLQFPHTCLKTRHAI/PS*FSD LCLINQIVLPIHPMVNPNPYTLCC SIPPYTMHYSVLQIRAFFTIPLH P*PSLY*VSLGLTLTPIRLSKLP GLHCRKASQTPITSVKPKFHP HLLPIST
15066	45434	A	15153	678	1189	LGSGLDPEWINPLSSCSLLCEKH PPTTSGPQTDQPKKHLTNFKSE TKETCFIHEPKTLAPVTD*GRQP SLGV*SLQGRPL*SFHSIRVSD HAGMPALVLHP*RVPLFWGR GKYPNPFSPCLLPLLCFSGDRG KYPNPFSPCLYSFAFLGTGQVP QPLLSLSLPLLCF
15067	45435	A	15154	649	1428	QCISELQFLLASTVRQTPATSPA HKNFQTPELQRPVPEPPPTG ACYTCRKS GHWAKECPQGI KA/HLTDSFPDLLSLAA/ED*HC PIASEAPETITDAELPVTLTVEA HLHPGEINSHVAHTKPVWWSL HRDAHEIWCCDSRGTSLRRPI PCPPALCSVTIHLRPQVLRPTS PRNISPINPAAPHQAE LGPNPS/ SSLCSSLT*SFYHLPSSHLVWLT VSFRD
15068	45436	A	15155	240	1208	LRSGDLPEWINPLSSCSLLREKD PPTTSGPQTHQPKHLTNFKSC KQ/DLFLSSPSTLTIPQLSPFN LGATLQSLPSLNFNSFHLVETK ETRFIRGPKTPAPVT/VLGRQPS LGV*SLQRCLSDYTPTFQGCQT TQGRPLPWSFTLSGK/CPLFWGR GNTL*KD*SLLSLACYSMGLLN PINSPPFSSHFTCPKTRQAVTS* VQDLRLINHIVLPIHPGGAQPH TLFCPQYRPVVLPIILFVYVKHA FFTIPQLPLPSLPSLRLTLPI RLNKLPLGCCCKAFRDSPHYLN QAQISSSVTYLGIILIKAHVLSL PIVSDW
15069	45437	A	15156	1174	1623	KFGLVQLTLGKPLPELELWPK A/HLTDSFPDLLGLAAED*HCPI ASEAPYTTDAELRVTLTVEGK SVPFLNTEATHSTLPSFQGPLSL ASITVVIGDQASKPLKTPQLW CQLRQYSFKHSFLVIPTCPVPLL G*DTLTKLASLTIP

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15070	45438	A	15157	1	1610	MGLGKSLCILKDAVLALREIKG ISFYAPNITNRLWGYRQAKQT QHLSGISTLDCPQRYNGDDTGS VWALEPSCMLWACPLVFPSEIY YFISEDVWKHLDAQEKFAAVM GPSRRTSVRAVWKGNVGLEPP HRVPTGALPRVAVKRGLSSRP QNGRSTYGLHCLKDTPQEDW LVSVLPEGSRVGVDP LIPTALG HGRTTFLKVLDFQGPAPCPAA MGVRLMAGPQCVSDDYWKKM AKVLRSAHGHLIPVKENLVDKI WTRDRPERPCKPLLTGLDYG SWKDKVADLRLKMAERNVM WAFVVTALDEIAWLFNLRGSD VEHNPFVFSYA IIRD*ETFMLFI DGDVRIDAPSVKEHLLDLGLE AEYRIQVHPYKSILSELKALCA DLSPREKVWVSDKASYA/V*SE TIPKDHRCMPYTPICIAKA/VK NSA/IESEGMRISEKSGNLTED PFYVIDRTLITGVVCNSTEKSS LMSVASADTAENLWHLFFHILP SERALTRKLRVLKLGPNVYSVQ NPTAQLHQQGGPHLGVA
15071	45439	A	15158	1	756	
15072	45440	A	15159	1	1677	
15073	45441	A	15160	1220	2620	GPTEPHTGELWLESGGCPSGK LPEEGTGSNLCCSTASAGDTQA NRVCSGPPTNHSRPAADRVPVR KINKQKTATSTSTKRTSTORPH PKVTNDHSSSPAREQNWMEIE FDELTEVGFRRWVITNSSELKK HVLTCCKEAKNLEKRHSLGK EPAALKGRTOYWQDSSPADLR PWLCA TLKQYKPTVFSHSTVA VHPRAGFLNLSTVDQHPVLDEP IAEAVCIADTNKWSVQVATSQ RKVPHNLKLGQDVLVSSQVSSL LQSILQLYKLHLPA DFGVDILLD NNLKCVFQLGSILPVTFRSHDP YDGEPTDELRTAACSPDTEQLA RQSGTYPVSLGQATVLEDSKA ALPGLGPTLMAVTVTTEAAV DMVVGDRGEERGGLVAPGTR GLTEIWFVPVSPSRWSSHPV VAFITLAKYGPTSSPPVFHHGPN IIRHGAQGAASAGDSGSSSRCD RLPCRQNA

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15074	45442	A	15161	666	1536	FSSAGDTQANRVCSVPPTNHSR PAADRPVRRKVNKQKTATSTS TKRTSTQRPHPKVNTDHSSPA REQNWMEFEDELTEVGFRR WVITNSSELKKHVLTCQKEAK NLEKRVVNCLTRIT*P*RRTI KTLMEKNTARE/LHEAYTSINS WINQAEERLSEIEDQLNFIKRED KITEKMKNSTTVRVAASMQSK LLQGVAAEEGPLRLTRSAFSAEI SMCHQWLFSTFGNGKSRNRYH CEKAHIEGNQLVEETGRAFKSR HRYGTGPLHKFEIHEYTELHHV LMLQGGK
15075	45443	C	15162	104	364	
15076	45444	A	15163	162	467	
15077	45445	B	15164	1	1122	
15078	45446	A	15165	188	456	
15079	45447	A	15166	485	1580	GEGYKADLAAATVECPICQQQ RLTLSPQYSHIPQGDQFITW*Q VDCIGPLLKGQRFVLTGIDTYS GYVFAYPVCNASAKTIISGLTE CLIHCHGIPHSIASDQGHFMA KEVWQWAHVHGIH*SYHVAD YPEAAGLIEGWNGLLKSQQLQC QLGDNTLQGWGKVLQKPMYA LNQHLYGTVSPATIHGSRNQD WNGSSRLGWFTILFTAPRREP GTYIASDQRTHFMAKEVWQW AHAHGIHWSYHVADYPEAAGL IEGWNGLLKSQQLCQLGDNTL QGWGKVLQKPMYALNQHLY GTVSPATIHGSRNQGMVEVA PLTITPGDPQAKFLLPVPMTLCS AGLEVLVPEGGTLPPGHTTIPLN
15080	45448	B	15167	10	2352	
15081	45449	A	15168	2	497	WKPIAMRKSRRRQEKLLPVQK EGQPKEGEREEGGPVQAQKVP NRLHLHWT/HLPSPFQLPLLLD SLWRALKFVVLAEIVKMIRFNG VLGKCEAIRAQLHEGGPPLPL AVFHNRLQIVACRSISARLRGS PPPKSNNEQSSSLDRLTDSQRL PPLSRNAQQKG
15082	45450	B	15169	1	1911	

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15083	45451	A	15170	1	1569	MPIGKVGEYYIKGLTRATKESE QQSSALELSSDRVLYLNEKEPGD QPWNAAFVFRGCGVALALRPP HLGWGEPRWAGFRGAFGFPS TLNPSNWSLTLIIQCKQEGFYS PSMRPRVVPKRGSA PKVRAEEN AALPSRCPPGPLPVAQPRGLLM GAHVSSAPAVGVGAASCHRLC PGFPDRPRPTLRSCIMNAVVG CDLRGQVYDPTGGWANEGTR DL SAVQGVPNHPGGRPCPTPOS SRQLPVVSRPPVVRPGGEAPPP LDILPAALALHQSLTPQDPRE DRPSPADLWAQDSWVGQPQEL PVGSRVVTGTGEPDTHSGSVCTS RQKKGSGPLARESSVRVILQG PSSAWMMFPEYTPGPRARAGT AVVGAMARQTVNVCLTKVRL QHPEGIPGGGRGPLVPKPVCTC/ IVDVKGSRVVWHVHICMSMGC RHVCLCGRSVGSRMCTAGQT PKLARQASIELPSMAASSTKSW WETGEVQAQSAKTSPSCKDIV AGDMSKKSLWEQKGSKTSST IKMDSVTT
15084	45452	A	15171	328	641	LLMRWSLPSAPRGFSCSCLQP QYPCRTESWPQTEPVSPVSHR LLVLATAMLGSSME/RLAG*LG GPASGLDGLGVLFQPLINLGDG QVWLGFLHTVTLLYGAV
15085	45453	B	15172	120	1458	
15086	45454	A	15173	1	440	IQQDSQAPLYSIKETQRANTYL VEWEPGAETAFKTLKQALVQA PALSLPTGQNFSLYITERAGIAF GVLTQTRGTTQPPVVYLKDGEP IEHDYQQIIAQTYATQDDLLEV PLANPDNLNLYTDGSSFVVGIR RAGYAIVSNVTVLE
15087	45455	A	15174	288	376	NHWLLLTMDPRIQQDSQAPLY SIKETQRA

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15088	45456	A	15175	777	1548	SKIQRDSQAPLYSVEETQRANT HLVEGEPEAEIAFKTLKQALVQ APALSLPTGQNFFLYITERAGIA LGILTQTRRETPQPVAYLSKEV DVVAKVWLHCLRDGEPKHDHC QQHVIQYAADDDLLEVPLANP DLNLYIDGSSSFVENGIRRAGYAI VSDVTVLENSLAAVTLQNRQG LDLLTAEKGGICTFSGKECCFY TNQSGIISPLEDTTITAGPFLHPI QQEVARAIIGQFPTAFGVSCLE GRLRGEASWTSWVE
15089	45457	A	15176	1	1359	MGPEPKNTHPGSCTCLACSSS HKGFEC LAVEQGSYTPVASPIV GVKENQEILDLELKYNQTRSA VTRCVLGAASTARIKQAEEGGR SRLAESSGLRPFVLELPALEHQ TPSSSGFELDLHQRLATWSQA FNYRLKDTLLASLLRFWDSD WLPCCSSVCSWPVGLHLVIIERN YSYQQGTETVVSWSWATGVSAA ASVSATIPINRYQGHCGFLGKR CFYCCIGECNHSDHQGPQTVAG SWARGVSATASQIQVDLGKFS DDPDRYIDVHLHTWRDVMLLL DQTLAFNENNVAAAAQEFGD TWYHRPVNDRMTAEQRDKFPT DIKTAAGIPWNHWWLLTMDPQ TQRDSQAPLYS\I*ETQRANTYL VEWEPEAE/TSFKTLKQALVQA PALSILTGQNFSLYVTERARLAL GVLTQTCGTTPLYQDELRRKTL RHRDSEGSFGNQLEASAD
15090	45458	A	15177	368	5192	AAPAPQLGLGPCKLASHLLSQS HLSQSVRSEAEQKAGASPASSI QREPLFKDQLKAPLEQKRRSL LTVPLLTFRQKCGPGSPVVAR GGATDSWLVSSEFRLSDSTAPP TELRGQEATGITKPPASLHPQPH AWDWARGRDPRRHLLGTPELQ EHSEKTTTETLPADMGLRTW ERKEATAGQAAEGAAGGIHFE ATSLLRPSYVPQTQGALSTTY KEAKMDRDLHLTPILAAQQRAR GPRIHSFPSDEMIEPS

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15091	45459	A	15178	76	969	KKSTALVIDNGSCMKAGFAG DDAPQAMFPSTVGFPGHQGV VDMGQKDSYVGNEAQSKRSIL TLKYPIKHGIITNWDNMEKIWH HFYNELHGAPE*QPVLLEDPL NPKDNREKMTQIMFETNTPA MYVAIRDVLSLYAFGRTTGIVM DCGHRVTHTVPIYEGYSLPHAI LHLDLTGWDLTEYPCILFSEK SYELPDGQVITIGNEWFWCPEV LFQPSFPCMESCRHQTINSIKK CDVDIRKDNVTLSSGTTMYPG IADRMQKEITALAPSTMKIKIIA PPERKFSVWIGCS
15092	45460	A	15179	1	451	
15093	45461	A	15180	130	227	LMKMKKV*RA*KEEERTTP AEDDFEKDLEWLINENEKSDAS IIEVYIANSIHNNYITKCFAIL
15094	45462	A	15181	104	1715	KEEERTTPAIVIPAAAFYTAY FLHKQKMENKDTDSKKEEY EDDFEKDLEWLINENEKSDASII EMACEKEENINQDLKENETVM EHTKRHSDPDKSLQDEVSPRRN DIISVPGIQPLDPISDSSENSFQ ESKLESQKDLEEEDEEVRRYI MEKIVQANKLLQNQEPVNDKR ERLLKFKDQLVDLEVPPLDIT TSKNYFENERNMFGKLSQLCIS NDFGQEDVLLSLTNGSCEENKD RTILVERDGGFELLNLQDIASQ GFLPPINNANSTENDPQQLPRS SNSSVSGTKKEDSTAKIHAVTH SSTGEPLAYIAQPPLNRKTCPS AVNSDRSKGNGKSNHRTQSAH ISPVTSTYCLSPRQKELQKQLEE KREKLKREEERRKIEEEKEKKR ENDIVFKAWLQKKREQVLEMR RIQRAKEIEDMNSRENRPQQA FRLWLKKHHEEQMKERQTEEL RKQEECLFFLKGTEGRERAFKQ WLRKRMEKMAEQQAVRERT RQLRLEAKRSKQLQHLYMSE AKPFRFTDHYN

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15095	45463	A	15182	881	2040	MKAGWRQTQHLHDAGQLLHLI LPGEQGVARVQLRRDAAQAPH VNGHVVGVAQDHFVGSVEPA LDVRVYCGGKTGGKQREEREG RCGVEILMVGERKMENKETD SKESEYKDESEKDLEGLTNEN EKSDASIIEMACEKEENINQDLK ENETVIEHSKQLSDPKSLQDE VSPRRNDPISVPSIQPLDPISDS SENSFQESKLESQKDLSEEDDEE VLPSSNSCVSGIKKEDSAKID VVTHSSTGEPLAYI/ASTYKLAY IPPLNRKTCFSSAAISDRSKNG KSN/HGQSAHISVTSTYCLSP* QKEL/QKREQKREKLKREEEQ KIEEEEEKKRENGIVFKAWLQK KREQVLEMRRIQRAKIEIDMNS RYSKTSLSLKNKFIQI
15096	45464	A	15183	873	4292	MVVSLSGRVSSLSSEDSPTGRVG R*VDCVKDRSIWAGVWISEDAP SEA*EIGGLGRK*MLSGGPSPS KHVHIL*DQDSSSIPEPMGPPCA PHAPGKEPGTSCSIDTDGKLSG VSGDDS*T/GTDGGESEIILLPQ *QLPVTLPSPPLPG*VRYTSRSL SRSRSTRDPGRKSRPISGLRGLC GDGATS/PLTPRHAPARDVQ/P VSMFAFGADR/GDGGRRGGASQ/ PAPPGPAVPRPCAQYSARAMPA SGRRRES
15097	45465	B	15184	1	2214	
15098	45466	A	15185	3	361	
15099	45467	A	15186	1	1035	MKIHKSGGLKATPQLYASQFSG VAILATWGPHRPRNSSTSFSTQS KLRRPDESSVDFQKMLCKEAT KKSKKEKPGMAFPQGHILFSDV AIKFSVEEWKCLNPEQRALYRE MMLENYRNLES/VG*LFKIHDG VLINRARQYRSVPHRDIGKT*FL LPRNQERYSL*VSVARN*KK WP*STHNRNQRVN*VHTGEKP QKCNCGKTFSSQSYLQCHHR LHTGQKPYK*E*CDKVYSCRSQ LKTHRIHTGEKAYCKVCEK AFWDNSCLSCQKRVHIGKPYT ALVMHKAHTGEKPYTCNECG KAFSRKANLALYHRLHTGEKP YKCECDKVYSRRSHLERHK
15100	45468	B	15187	1	1347	



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15101	45469	A	15188	1	1446	MWRETKRYAAVLLI.TPHYSAS LLPDW/PNLYLHQSGHHVPGVY LKFGSSNPIYPCVDSAKTVFPN APLHDRVQSVRRMGPFKGVFR KVFSNLGFEYSLSTWATMGSPG SLGVSPFGKTLFVESASGSLDA LWPTVEKEISSHKNYQKHSEKQ IYDVRIELTGLNALPNISLNFYK NSVSKLLNRKKGLIHLQPFILR LCVSLHKNREENLGITIQDVAM RLSALPNIVCRLYKKTASEVLK EWSTRWDEYTHHKEVVSQKALP TL SVKIYKKNICQLLNQNNGNP SEMNALITKKS VKSASGYLESI AALVEKEISSYKNYTEAFYNLL CDVYSHVTEMKLSSEIQIGNTL FVESASGVWRALRPRGKEVNDI FIDQIANSVLVDSSKDICKRFEA CGAMVKKENLHIKTRQKISEKL HWPFGAPRLTSLTQPEKTGKGE HPGAKARGELSGAPPLJHTRKL SLMSNVETLLLEKLGQYTGAI
15102	45470	A	15189	1	966	
15103	45471	A	15190	157	531	GDHTTFLCLLMVNAEFKYNFK TIIS*DLLKKDGGQYGHFTIFFRS MSIGCFSIYLCIFNFFHQCFAYF LVEIFTFLVKCIPQVDSIEDTTFG HPEEATPHPFSFFMRLEQFSHIF SSWPVSFTAH
15104	45472	A	15191	9	494	PTDRPRPRALAGARGPPGRAPR VPPAGGPRPSQYGHGGRPNPR HGWHDAFCPNNTPYR/ERPLDS RYLTPGPLDMRGDSGFRTGRGS DVGSLKPTDTRRNGKIYLNGS/ NVFYYQRLHPVHRGDGARRG FSGRCTCLHRMVC*YEQTGHQS DQT*KARSAYG
15105	45473	A	15192	1361	2038	
15106	45474	A	15193	1376	1906	LAFPDGMASLIMMSLPAMRTL AWAMAVSGNCIPEGQFSALSC ADFGISPKLIL*SSSAPNLYLAMG ISCPRADDLPEAGTAETDRACR SIPQYGTDLGWYPATAAGPQSE SVQGAV*PHRYEAG*ST/VWKP LKKK*KPLPRR*LARWQMRFR KPSPLTTSCLKTCA WRFLDFRW LE

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15107	45475	A	15194	1	1388	MIEHPRRRDNYRQSGPPVADKP TTKGEPLISDIVSDAQANLLIP VDETPPVINDEQSTSTPLTTAQT MALAAVADKNTTKDEKADDL NEDVTASLSALFAMLPGFDNTP KVDTPSTVLPTEKPTLFTKLTS EQLTTAQDDAPGTPAQPLTPL VAEAQSKAEVISTPSPSISGVT RSKMRQREWLVLPEDSLVIRR SNKTSQLPAFNVPLSAKAAAS KPWRASNTACRNSRPSKVCSAE GEQWFSASGRGEIHSQSPARDM AQMCKLAAEGHFAEARVINQR LMPHLNKLFEVNPPIPVKWACK ELGLVATDTRLRLPMTPTDSGR ETVSGDETYLEAAPLAELHAPA GMILPVTSGDYAIPVTNGSGAV GSYSAITEPGAGSDVGSLKTTY TRRNGKIYLNIGS/NVFYQQRL HPVHRGDGARRGFSGQTCCLR MVC*YEQTGHQSDQT*KARSA YG
15108	45476	C	15195	1	1905	
15109	45477	A	15196	285	1706	YARVHSGRSSIRRSIPVSIIRSSI RGCVPVHCHIRSSIRRSIPVDHL YQIHTKKHTRCFVSDHPYEE APDYSASLLPDWLPVPSKVVVI TYPGFTSICGYTTSSKACFSVF AWCFTSDVPGRFSEDEDDSE MWSLTALMGVMGGWKTARS EVSILCTSSKVIHSSYPYADRA FQVWSLDARFAHINKPFGVDRF SGAEPSRAITMYGVKVLNRPA TGTARHLVPPDVPVHPHGGESN KPRVQTTVSSGISRLSIPISASAL QNVDPKTHDISNITDTVYHCLP SQSSRWYWRFPVRSPLSNGQ TAVRPGGRAGAAGGPLSEYS GSGFGVMKWTKDQLTVTKV HHLPEVVEFLYYKQGGWLSVL FGNDERKLNHYAVVYVLSRE KGTKCWITDSMDYRQR/PAPT NDAETYEFINELGARKTTVPPI GPLHVT/DEPGHLRLFVDGENI IEEANNE*IHRTQC
15110	45478	A	15197	3	1396	
15111	45479	B	15198	1	1399	

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15112	45480	A	15199	283	796	FVGVKSAGNRLKTIDELANESR SSVGLTQAALKTLESSGAIRIER RGRNGSYLVEMDNKALLTHVD INNVCAMPLPYTRLYEGLASG LKAQFDGIPFYAHMRGADIRV ECLNGVYDMAVVSRLAESY LPQKGLCLAL*LGPPPYVGE\YQ L*QVKAKSEYVKRVGHV
15113	45481	A	15200	48	3376	
15114	45482	A	15201	49	681	DPGADRRGSVWGLSDLRNTYN ALYLTHSGRLSECPPTANEEKE PTNHNRTLNTQTQKEKKKTRT KDCTTRNKSTRPGSGIAGPSY YTVAGPPSAIDPRWLRPTPPAL DPQ*MPHTSKRGKRADQSQPN ANKPNTEREKKDKNEGLHHKE QEQQRPQSGIAGPSYYTVAGP PSAIDPRWLRPTPPALDPQTEPL IFQQLIEDHYVAGLTHEVMSLS HLTLVMRWGSVSAHLAHWA RCRWISTELTPNSITSTSSPLKD CSSSPAMEQSWLENDFDELTD KKTCLCDH
15115	45483	A	15202	3	587	
15116	45484	A	15203	3	774	MVLMAGFTAGNEKGELVVLG RNGSDYSAAVLAACLRADCCEI WTDVDGVYTCDPRQVPDARLL KMSYSQAEMLSYFGAKVLHP RTITPIAQFQIPCLIKNTGNPQAP GTLIGASRDEDEL PVKGISNLN NMAMFSVSGPGMKGMVGMA ARVFAAMSRARISVVLITQSSSE YSISFCVPQSDCVRAERAMREE FYLELEESLLEPLAVTERLPIS VGSDGNPPPCGGISPKFFAALA PRPISKFVALCSGIPF

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15117	45485	A	15204	1474	1511	HS*VPANLYMELKACFTGA/NE KGELVVLGHNLA VSYFIALAAS LRADCCETWTDV DGVYTC DPR QVPDARLLKSM SYQEAMELSY FGAKVLHPR TITPIAQFQIPCLIK NTGNPQAPGT LIGASRDEDELP VKGISNLNNMAMF SVSGPGMK GMVGM AARVFAAMS RARISV GLITQSSEYSISFCVPQSDCVR AERAMQEEFY LELKEGLLEPL AVTERLAHISVVG DGMRTL RGIS AKFFAALARANINIVAIAQGSSE RSISVVVNDDATTGVRVTHQ MLFNTDQVIEVFVIGVGGVGG ALLEQLKRQQSWLKNKHIDLR VCGVANSKALLTNVHGLNLEN WQEELAQAKEP FNLRGLRLVK EYHLLNPVIV DCTSSQAVADQY ADFLREGFHV VTPNKKANTSS MDYYHQLRYAAEKSRRKFLYE HNTFVSPHIRPLIERRGRSSTRD KWCARPSTERQQDNSAARILSC QQGNTSFEHTSSIRVGT TNSLN
15118	45486	A	15205	198	462	

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15119	45487	A	15206	31	1981	RWLMRGMGIALPAAMASTVSP STIAETPEPPPLSDW/LRASG/DV VVHLLGLDPHLSLLLSICLFSR SLIWIF*LQP*SV/ALAFQMGAS LFASNIGVIEGEGPQAKPL*CLT VSYFEMLNNLNAQGPKGKLS CQCLSLQVMTMPEYLLKKRWTL GQRSQWPQMHSVFS*LPF*A DIFAGAIKQPSGEGKYMRT G*NALVLFLLSGGLEVVHINIG CLRFQ*DISFYSDAFLAFNEVGG YESFTEKYVNATPSVVEGDNLT ISASCYTPRADSFHIFRDAVTGK GR*LPLKSSPGLFHIECVTFSRQV IVQRCL/CGKDMSHVKAACIMF LFV*WLLVLPWASLDSLLNSSP DMVACVVPSECVISTLSGLARQ CPATNQCLYPPAPGLRGLMLS VMLASLMSSLTIFNSASTRTK AQWK*L*CFCLMFKLCCFLRL FVLLLTVVSVVWVPLVQVSQNG QLIHYESI***LT*ISFYFLNLI FFLLLLQGAFWGLMVGLAMGL IRMITEFAYGTGSC LAPSNCPKII CGVHYI.YFSIKVPFYITIANICL LLMHFCMVPVQLYRLCWVLR NTTLTRISSFVI*IFCNHLLIFVP DYPEKSRGCLCKAYDLFCGLQ KGPKLTKEEEEALSKKLTDTSE
15120	45488	B	15207	1	1392	
15121	45489	A	15208	57	1523	
15122	45490	A	15209	473	589	LPRQLALSCVVHCQTLVPAIRCI DWGWLF*W*SVTPVM

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15123	45491	A	15210	1	1297	MGKIMSSYQHVDLIVDCDFEA YHRQPSSGTSVVTGPSAQA TEKIVTYHWDQHVGDVVLNI YCVINVL DHTVKAVIDDRFMG GITTINLQLMAIIVRYFFASGSA YIVAMLPVFAMLANVSGAPLM LTALALLFSNSYGGMVTHYGG AAGPVIFGVGYNDIKSLCFDER TRIDVADTYASNWRSRCNQITF NGECPNTRQHIAAVRRGIDTLL MNDYLRKQIIDI STRIAGTANN GDFTGQWITAANTVNFQIVAGT HNCHQYFIALRLFILKYIQDR AREGLKQRDLAEALSTSPQTVN NWIKRDALSREAAQQISEKFGY SLDWLLNGEGSPKKDLESNIPP ESEWGTVDADWKNTPLPDDEV EVPFLKDIEFACGDRVHDEH NGFKLRFSKVVQPRVGC*QG* G*LLYLDV**GDPLEST
15124	45492	A	15211	62	301	SWMSSPRAFFSSCTLETAAPTR MATALTSAACRLPPAAGSGSP WAPAPYRWRARRRTGPMSSDR Q*RTSQPCPEAAASR
15125	45493	A	15212	1	1665	MQD SAHLRRLLPPAASRRVWLA LGSCPLPLESSPAHRA YERPSVA HQPAVPGARRSLEVPSEVPLTV PALTPPRIPAMLTAVCGSLGSQ HTEAPHASPPRLDLQPLQTYQG HTSPEAGDYPSLPQGELQSLPL GPEVDFSQGYELPGASSRVTC DLES DSPLAGPFSKLLQPDMS HHYESWFRPTHGAEDGSWWDD LHPGTSWMDLPHTGALTSFG HPGALQAGLGGYVGDHQLCAP PPHFAHLLPAAGGQHLLGPP DGAKALEVAAPESQGLDSSL GAARPKGSRSSVPRSSQTVCR CPNCLEAERLGA PCGPDGKK KHLHNCHIPGCGKAYAKTSHL KAHLRWHSGDRPFVCNWLFCG KRFTSRDELQRHLQTHGTCKKF PCAVCSRVMRSDHLAKHMK HEGAKEEAAGAASGEGKAGGA VEPPGGKGKREAE GSSMASSPD SPCSCDCFSVPPASAI PAIVIFA HELGP TPRGAGGGVCPRRHS HSWEPAPGL*AVGGGGGASGQ AGDRGCHA*EAGRS/SCSRGS GL*RA GTS*ISASS

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15126	45494	A	15213	3	471	GRPSSPGVHGSSQTPTAHVGSF PGCGPIPPD/ACRRSKIRPGGW GGVGG/CRDGRNSR/DLRNLPC PFLFLPGP*AAAPSPWPAAAGA APCGQCLDGWPHSYSHGHSSA AGRGGICRSPLLAGELRPPGIQ YNGRTEVRGILSGSPCPPFSGAG
15127	45495	A	15214	3	449	PHQDLEEA MVLL*PPSP/PAWPT MRTRKRPSSKVSSTSRPLKXSIM TTYAVPSRAPTPA*PSASKPTNA FS/HMVGSEPRSHAHLDDGRHRD SR*RKPRPLSGPRTLGGKSLRGS AGAGRGGVPRPRPLPENLDAPL WNSPGNSAGAAVQLA
15128	45496	A	15215	26	1126	EGPSSEAAHPGGTPREQDGAM DPARKAGAQAMIWTAGWLLL LLLRRGGAQALECYSCVQKADD GCSPNMKMTVKCAPGV DVCT EAVVAVETIHGQFSLAVR/GCG SGLPGKNDRGLDLHGLLAFIQL QQCAQDRCNALNLT SRALDP AGNESAYPPNGVECYSCVGLSR EACQGTSPVVSCYNASDHVY KGCDFGNVTLTAANVTVSLPV RGCQVQDEFCTRDGVGTGPFTLS GSCCQGSRCNSDLRNKTYFSPR IPPLVRLPPPEPTTVASTTSVTTS TSAPVRPTSTTKPMPAPTSQTTPR QGVEHEASRDEEPRLTGGAAG HQDRSNSGQYPAKGGPQQPHN KGCVAPTAGLAALLLAVAAGV
15129	45497	A	15216	1401	1983	AQRAQALECYSCVQKAD/DGC SPNMKMTVKCAPG/VDVCTEA VGAVE/SHPFWIWPRPFNAAPP LSAWPGPYDTALQARPLY*QL QARGAES*ELVH/GQFSLAVRG CGSGLPGK/NDRGLDLHGLLAF IQLQ/QCAQDRCNALNLT SRG LDPAGTSPVVSCYNASDHVY/ KGCDFGNVTLTAEPPTVASTTS VTTSTSPQ

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15130	45498	A	15217	1	964	MNVKGD TQGNTRVRVDNIGG VGAQTVNGIELIEVGGNSAGNF ALTTGTVEAGAYVYTLAKGKG NDEKNPSVYRPEAGSYISNIA AANSLFSHRLHDRHSLQPLKI LVTGGAGFIGSAVVRHIINTQ DSVVNVDKLTAGNRSLADV SDSERYVFEHADICDAPAMARI FAQHQPDVMMHLAAESHVDRS ITGPAAFIETNIVGTYYLLEAAR NYWSALDSDKKNFRHHISTD EVYGDLPHPDEVNTEELPLFT ETTAYAPSSPYASAKASSDHLV RAWKRTYGLPTIVTNCNNYV PYHFEKLIPLVILNALE
15131	45499	B	15218	44	405	
15132	45500	A	15222	1	498	MTRSLLSVFEEADAGTLTDYTNQ LLQAMQVRVYGAQLNLLHTELA KQLAETQWFYLSYNSEKRISQTL SAMWRGRAAAQ/TQGHVWVG MVEAVCSKVSTLKDGLGLASN EHDLSMAKYSRLPKKENEKL AAFGQPTWCDPAERYGVFLPV GPDPGAKSAPSPRDRASTL
15133	45501	A	15223	1	1224	
15134	45502	A	15224	1	1353	
15135	45503	A	15225	1	2580	
15136	45504	A	15226	1	3117	
15137	45505	A	15227	1	1260	
15138	45506	A	15228	1	2142	
15139	45507	A	15229	1	1413	
15140	45508	A	15230	1	4049	
15141	45509	A	15231	1	381	MLMLNIGFKNFQFEHLKCSHGS YSEDIGFPNAGALSGAMFLEE KHLLFGLKEERLRASIRRESQ QRRMRKQHQRLSASYWNLI DTMRRRKARSP/YSLAAIKNRY KGGIRDQKPSYDSLNLCTMT
15142	45510	A	15232	1	467	DHSSSPAREQNWMEFDEL EVGFRRWVITNSSELKKHVL TQCKEAKNLEKRLGELLTRITSL EKNINDLMELKNTARELHEAYTS INSWINQAERLSEIEDQLNEIK REDKITEKMKNSTTVRVAASM QSKLLQGVAAEGPLRLTRASF
15143	45511	A	15233	1	1140	
15144	45512	A	15234	1	2640	
15145	45513	A	15235	1	714	
15146	45514	B	15236	1	546	
15147	45515	B	15237	1	735	
15148	45516	B	15238	50	1603	



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15149	45517	A	15239	1374	2220	QAENSHININKKDVHSETPSEG HQRKRPKDHSSSPAREQNWME N\EFDELTEVGFRRWVITNSSEL KKHVL TQCKEAKNLEKRLGEL LTRITSLKNNINDLMELKNTAR ELHEAYTSINSWINQAEERLSEI EDQLNEIKREDKITEKMKNSTT VLVSTWGSQLEQNNLPHIISPLF HSTHDLNISFYGGCLLQACSSK LLQGLAEGGPLRLTRSAFFAA KLCLTKHFLPTMILIKSRKTTP DTQPRRLYLLQGVVDQTSRKG PTALNIRQKTFAAAPPHR
15150	45518	B	15240	1	1311	
15151	45519	B	15241	46	212	
15152	45520	A	15242	3	371	EPLPPEPPAVPSEVELQHLRKEL ERVAGELQSQVKNNQHISLLNR RQEERIREQEERLRKQEERLQE QHEKLRQLAKPQSVELKISQEV QSLQQQPDHFLGHL/QQYVIAT LSAARWAAQQLD
15153	45521	A	15243	392	558	
15154	45522	B	15244	52	689	
15155	45523	B	15245	400	603	
15156	45524	A	15246	5	1158	RKFWRWMVVMMAAQHSQAAQ GQRR**VSKGP**PGPMGGPVL GHWWHSGGISLAVPSLPPGKS SVFLFLFSASFMDKMLNPGTVSP RLIFGSYDDGFLVETVVKFDFQ LWQKTPLHRAAGERRRAEQRG KLSFVMP

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15157	45525	A	15247	1	1808	MAEETQHNLAAAKKKSATGF HREGPTSSATLKDLESPCQERA VVLDSSTVKISRLKNTIKSLKQQ KKQVEHQLEEVTPDNLVPWV GLSWGIGGILGACLLCHLCLP LEKKANNERQKAERELEVQIQT LIHQKEELNTDLYHMERSLRYFE EESKDLAVRLQHSIQCKGEI.FS ALSAVIATEKKKANQLSSRSKA RTEWKLEQSMREEALLKQVLT QLKESFQQVQLERDEYSEHLKG ERARWQQMRKMSQEICTLKK EKQQDMRRVEELERSLSKLKN QMAEPLPPEPPAVPSEVELQHL RKELERVAGELQSQVKNNQHIS LLNRRQEERIREERLRKQEE RLQEQHEKLRQLAKPHCAFSRS *TMRTRAHLQLEQQVKELQE/Q ALARVFLQVELKSQEAQSLQQ QPDHYLGHPAAEHLEAASQQN QQLTAQLSLMALPGEGHGEH LDSEGEAPRPMPSPVEDLES EAMVAFKKSAGASAQEKQAL QEQVKEQRVCCQRLAHPVASA QKFEPAARPGAPGPGGESSF MDHLKEKADLSE/PGEKRTLH P/PTG/GDRRHQKTHHLLSEPGG CAK/DAALGPQHQAQAGGDD
15158	45526	A	15248	2085	2700	YPGKRGLEWT*ANSNRPAAG PDE/SSSLPATEQSWMENDFE LRKEGFRRSVITNFSKLEEDVQ THRKEAKNLEKGLDEWLTRINS IEKTLNDLMMEMKTMA*ELHDT CTSFSSRVQVEERLSVI*QDM NEMK*EEKFREKRVKRNEQSL QEIWNYVKRPNLHIGVSEIDR ENGTKLENTLQDIFQENFTYLA RQANIQIEI

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15159	45527	A	15249	378	1744	QTERNSININKKDIHTKTPSVRH HHQRPKLHKTTKMGKKHSRKA ENSKNQSGLPPKECSSPAVE QSWTENEFDEFT EEGFRRIESQ MNEIKGEEKFREKRVKRNEQSL QEIWDYVVKRPDLRLIGVPDSDG ENGTRLENTLQDIIRENFPNLAR QASIQEIQTPTQRYSSRRATP RHIIVRFTKVEMKEKMLRAARE KELKIKKLTQNCLETTWKLNNLL LNDYVWHNEMKGEIKMFFETN ENIDTTYQNLWHTFKAVCRGK FIALNAHKRQERSKIDTLASQ LKEIEKQEQTHSKASRRQEITKI RVELKEIETQKSLQKINESRSWF FEKINKIDRPLRLIKKKREKNQ IDTIKNDKGDITTNPTIEQTSRE YYKHL YANKLENLEEMDKFLD TYTL SGLNKEEVESLNTSITGSE VEAIINSIPTKKKSRTRWIHSRIL PEVQGGAA
15160	45528	A	15250	935	1269	LIEGKLTERN SININKKDIHTKT PSVG/PPSSKTKDRSSLPAIEQS WMENDFDELTEVGFRRSVITNL SKLKEDVRIPHKEATNLEKRLD EWLTRINSIEKTLDDLMEKMTM
15161	45529	A	15251	401	497	KTFSPFYFS*RRRTVRDINGFTE Y*EPEKLLG
15162	45530	B	15252	220	940	
15163	45531	A	15253	1	1476	

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15164	45532	A	15254	1	2423	MNGKNTNIYQEPTVCQALHW TLARIGKEEPRRGQRGEGLLCS RERQPRGLSSPGTAAPAAPAP TPPALPGHRTSRGSPGEPILR RGGSADAPGRVKTWVNRPAF VGKCLGDGSDTACDQAMKG QRGSNRKRKTSLSLTFPTSSDM HAGGLSAAHPCAHSRAPPPASP SPYKGLGTRTDGLTDSRADSA ASGARALGVGGPQPSPRRAP PRPVGADGSSRGPPGRRRVER RGPATQPGDSRALPEPRGVPAV HPAGSGSEWERPPAAPSPPEHR DKMLPGLRRLQLQASARRPQPP EAAARWVWSPCFSSGTLCPSPFQ ERPLLPFGGASFPQTTLHQRCLP VAALHSGSGKGQKWQQSHCYA AAVMEPPAPGRSSSLQGPLS WAGGAPASACLLMLLALPLA APSCPMLCTCYSSPPTVSCQAN NFSSVPLSLPPSTQRLFLQNNLI RTLGARHLWVQPAHPVALLQQ PLHHLPGHFPLQALEELDGLD NRHLRSLEPDTFQGLERLQSLH LYRCQLSSLPGNIFRGLVSLQYL YLQENSLHLQDDLFADLANLE PTSLHGNRLRLTEHVFRGLG SLDRLLHGNRLQGVHRAAFR GLSRLTILYLFNNLSASLPGEAL ADLPSLEFLRLNANPWACDCR ARPLWAWFQARVSSSDVTCA TPPERQGRDLRALREADFQACP
15165	45533	B	15255	47	482	
15166	45534	A	15256	1	636	MRDPNTKRSRGFGVTCATVE EVDAAAMNARCKVVGRTVEPK RAVSRSDSQRPEDTEELHLRDY FEQYQKIEVIEIMTDQSGKKR GFAVTFDNDHSDMDKTVIQKY HTVNGHNCEARKALSKQEMAR ASSSQGRSGSGNFGGGRGGGF GGNDNFGRGGNFGHGGFGGS HGGGGYGGSGDGYNGFGNDG GGGSYNDFVYNNQSSHFPGM

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15167	45535	A	15257	1	890	MSKSESPKEPEQLRKLFIGGLSF ETTDLSLRSHFEQWGLTDCVV MRDPNTKRSRGFGVYATVE EVDAAAMNARPHKVDGRVVEP KRAVSREDSQRPDYFEQYGKIE VIEIMTDRGSGKKRGFAVTFD DHDSVDKTVIQYHTVNGHNC EVRKALSKQEMASASSSQGRS GSGNFGGGRGGFGGNDNFGR GGNFSGRGGFGGSHGGGGYGG SGDGYNGFGNDGSNFGGGGSY NDFGNYNQSSNFGPMKGGNF GGRSSGPYGGGGQYFAKPRNQ/ GGYGGSSSSSYGSGRRF
15168	45536	A	15258	1	286	
15169	45537	A	15259	1	1674	
15170	45538	A	15260	235	1370	KREGEGRADTFVSLLSARGR RRRSIVKVSHPAVMSKSESPK EPEQLRKLFIGGLSFEITDES LSRSHFEQWGLTDCVVMRDPNT KRSRGFGFVYATVEEVDAAAM NARPHKVDGRVVEPKRAVSR EDSQRPGAHLTVKKIFVGWH* RKTTFWGGKKRAKHHHLRD YFEQYGKIEVIEIH*LDR/GQWP RKRGFVFTDDPDSVDKIV/ QKYHTVNGHNCEVRKALSKQ EMASASSSQGRSGSGNFGG GRGGFGGNDNFGRGGNFS/ GRGGFGGTGGGGYGG/SVG DGYNGFGNDGSNFGGGGSYN DFGNYNQSSNFGPMKGGNF GGRSSGPYGGGGQYFAKPRN/ QGGYGGSSSSSYGSGRRF
15171	45539	B	15261	1	660	
15172	45540	A	15262	2	486	KMRQREARQGGK/VAPAPAVV K/KQEAKKVVNPLFEKRPKNFG IGQDIQPKRDLTRFVKWPRYIR LQRQRAILYKRLKVPAINQFT QALDRQTATQLLKLAKYRP/G DKGALAKLVEAIRTNYNDRYD EIRRHWWGNNVLGPKSVARIAKL EKAKAKELATKLG

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /-possible nucleotide deletion, v=possible nucleotide insertion)
15173	45541	A	15263	3	845	PPKMPKGGKKAKGKKVAPAPAV VKKQEAKKVVNPLFEKRPKNF GIGQDIQPKRDLTRFVKWPRYI RLQRQRAILYKRLKVPPAINQF TQALDRQTATQLLK/LVAHKYR PTEKQEKQRLALARA/EKKAA WQKGTSPTRKPPVLR/AGS*HP VTTLVEWKKASAGWVIAHRR GFPSLVVFLPALCREKWGSPY ICIIKGKARLGRLVTRKCTTV AFITQVNLGRQALLKLVEAI RTNYNDRYDEIRRHGGNVLG PKSVARIAKLEKAKAK/ELATK
15174	45542	A	15264	1	5796	MPRVEKNIPGRNRNSKGFEDPLE VTQDVTREWAKKVVWVWREKA SKINGAYFCEGRVVRGEAIRRT MKMRQQATLTMTVDKGDNVN ISFKKVLKEEDAVIYKNGSFIH SVPRHEVPDILEVHLPHAQPD AGVYSARYIGGNLFTSAFTRLI VRILPPQENIKISNITHSSAVIS WTILDGYSISSITIRYKVQKGNE DQHV DVKIKNATITQYQLKGLE PETAYQV DIFAENNIGSSNPAFS HELVTLPESQAPADLGGGKML LIAILGSAGMTCLTVLLAFLIILQ LKRRANVQRRMAQAFQNVREEP AVQFNSGTLALNRKVKNPDP TIYPVLDWNDIKFQDVI GEGNF GQVLKARJJKDGLRMDAAIKR MKEYASKDDHDFAGELEVLC KLGHHPNIINLLGACEHRERGD RRHLENQVTPTLILRFSNLSKR HTRRLYPEPGSEGPTPTPEPSLL AQQSEIKLHGGSEPLLIFRQTG SGVDLQQTPTNLQLRVLTVRR KTDKRKGHPHQKPCSSPSSKT KEGFRRSNYSKLEEVQTHGK EVKNLEKKLDKWLTRITNAEK SLKDLMEKKTARELCDECASL TSQFDQLDKRVSVMEDQMNE MKQEEKFREKRIKNEQSLQEI WDYVKRPNCLIGAPESDGEN GTKLENTLQDIQENFPNITRQA NIQIQEIQRTPQRYSSRRATPRHI
15175	45543	A	15265	1	2212	

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15176	45544	A	15266	1	743	PPLLIFRQTGSGVDLQQTPTNLQ LRVLTVRRKTDKRGHPHQKPI CSSPSSKTKEGFRSSNYSKLKEE VQTHGKEVKNEKKLDKWLTR ITNAEKSLKDLMEKLTARELC DECASTLSQFDQDKRVSVME DQMNEMKQEEKFREKRIKRN QSLQEIWDYVVRPNLCLIGAPE SDGENGTKLENTLQDIQENFPN ITRQANIQEIQRTPQRYSSRR ATPRHIIVRFTKVEMKEK/MLR AAREK
15177	45545	A	15267	1	618	EVSRRNTRTKTSYKQDMNTSK GF*KDTST*PVT/KERSSSPATEQ CWTENDFDELREEGFRSSNYSE LKEEVRTNGKEVKNEKKLDE WLTRITNAEKSLKDLMEKTM ARELCDETSLSRRCDQLEERV SVMEDEMNM
15178	45546	A	15268	200	618	
15179	45547	A	15269	158	594	SGSSICCSPISTVLQPPLLTQRQT GSGATSSK/SPTDLQLRECS SSP AKEQSWMENDFDELREGFRSS NYSLEKEEVQTHGKEVENLEK KIDEWLTRITNAEKSLKDLME KTMAREQCDECTSLSSRRDQLE ERSVSDQINEMK
15180	45548	A	15270	3	1453	LSDELEAAQSIIIFAGYETTSSV LSFTLYELATHPDVQQKLQKEI DAVLPNKERSSSPATEQSWTEN DFDELREEGFRSSNYPELKEEV RTHGKEVRNLEKKIRQM/VTRI NAEKSLKDLMEKLTMAELRD ECTSLSQFNQLEERVSVMEQ MNMKKEEKFRKRIRKKEQS LQEIWDYVVRPNLRLIGVPESD GENRTKLENTLQDIQENFPNLA RQANIQEIQRTPQRYSSRRAT PRHIIVRFTKVEMKEKMLRAAR EKEIQTIREYYKHYANKLEN LEEMDKFLDTYTLRLNQEEVE TLNRPITGSEIAIINSLPTKKS GPDGFTAIFYQRYKEDLVPPFL KLFQSIKEGILPNSFYEASIIIP KPGRDTTKENFRPISLMNSDT KILNKILANRIQHIKKLIHHDQ VGFIPGMQGWFNIRKSINIQH NRTNDKTHMIISIDAFAFNKIQ QPFMLKTLNKL
15181	45549	C	15271	111	269	

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15182	45550	A	15272	94	4505	YLDMMSFVQKGSWLLALLHP THLAQQEA VEGGCSHLGQSYA DRDVWKPEPCQICVCDGSGVLC DDIICDDQELDCPNPEIPFGECC AVCPQPTATPRPPNGQGQGP KGDPPGPIGRNGDPGIPGQP GSPGSPGPGICESCTGPGQNY PQYDSYDVKSGVA VGGLAGYP GPAGPPGPPGPGTSGHPGSPGS PGYQGPGEQAGPSGPPGPP GAIGPSGPAKDGESGRPRGP ERLGPPIKIG
15183	45551	A	15273	1628	1832	RRRRKARERRRLAAEQGRMK EQCKDGFSE/QASGALKLMGSN EGEFKAEGNSKFTYTVLEDGCT KHTG
15184	45552	A	15274	1	362	
15185	45553	A	15275	1076	1240	LRQLL*LCPSWRLCLLGGWQL HLFF*RHFFVHLVSQRCSIAM SPSRRCFSLHL
15186	45554	B	15276	480	1167	
15187	45555	A	15277	3	379	
15188	45556	B	15278	13	369	
15189	45557	A	15279	112	1112	WPPASPSASVIRTVKEFALTNP KSSTKETERKETKAEELDAEV LEVFFHPTHEWQALQPGQACPC RNPTYGLNLQTGEREAKLQYE DKFRNNLKGRLDINTNTYTSQ DLKSALAKFKEGAEMESSKED KARQAEVKRLFRPIELKKDFD ELNVVIETDMQIMVRLINKFNS SSSLEEKIAALFDLEYVHQ DNAQDLSFGGLQVVINGLNT EPLVKEYAAFLGAFFSNPKV Q/EWEAIEGGALQKLLVILATE QPLTAKKKVFLALCSLLRHFPY AQRQFLKLGGLQVLRITLAGE GHGGARRARGHTALRCPCHREK CSPRRRLS
15190	45558	B	15280	54	385	
15191	45559	B	15281	274	776	



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15192	45560	A	15282	362	1323	HQLGRSALLDTRTVSMQKAKN GDAVTEPQVA/ENEANGKDTA EVDLLTKELEDFEMKKATARA VTGILASHPCSTDVHIINLSLTF HGQELPSDTKLELSVVRHYGLI GLNGTENSMLLSAVGKHGVP EHIDIYHLTREMPSPDKTPLHSL VTVSSPRQRDDMSDGHLCAR RHTDIRDRSPDAPDTARSLAR STITTRRIFALATPSRTLQVCS ALAYTSHPAARTQPLASTALTR RYMLPSPQLPSLRDHRRTNPLH SAVATIPHTTTGEADVSLLCIGL STLHYALVYHVSVLTAALSAQS MSATDASIIFFPKR
15193	45561	A	15283	3	537	
15194	45562	A	15284	1	455	MPRPEKLGKTQVPLAECLTKD SFLGQKQASLGLPTFRDVTIEFS LEEWCQLDVTQQNLYRDVMLE NYRNLVFLVISS/HFTQDFWPD QSIKDSF/QRIILRTYARCGHKN LRLEKIVKVS MRKHQIIHTGKK PYKCECAKLLSPQLENMR
15195	45563	A	15285	1	397	FAVLMAHYDVQEEDPVLTVIT YMGLSVSLLCLLAALTFLLC KAIQNTSTSLHLQLSLCLFLAHL LFLVAIDQTGHKVLCSIIAGTLH YLYLATLTWMLLEALYLFLLTA RNLTVVNYSSINRFMKKLMFPV
15196	45564	A	15286	191	1332	AJETQAITDNCSEERKTFNLSV QMNSMDIRCSDIQGDTCQGPSVI AFISYSSLGNIINATFFEEMDKK DQVYVLSQVVSAAIGPKRNVSL SKSVTLTFQHVKMTPTKKVFC VYWKSTGAG/CSQWSRDGCFLL HVNKSHMTMCNCSHLSFVAVLM ALTSQEEDPVLTVITYVGLSVSL LCLLLAALTFLLCCKAIRNTSTSL HLQLSLCLFLAHLFLVIGDRTE PKVLCSSIIAGALHYLYLAFTW MLLEGVHLFLTARNLTVVNYSS SINRLMKWIMFPVGYGVPVAVT VAISAASWPHLYGTADRLAF KATAQLFILGCTWCLGLLQVGP AAQVMAYLFTIINSLGFFIFLV YCLLSQQAHHKFTPMEVPRQN HRLCQON
15197	45565	A	15287	263	397	GRPPAPAARVSGPASVSAG*KR VSAGSVGVRSMRRGSALLPPN F

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15198	45566	A	15288	1	278	MKFDHGRGQMOPKPSAEAVNS APQREPEGSILRAADPLVWAAK AMSASR/RGS/CGGSSADPRHTE RTPTPEPDADTRFQPAETLAGPK TRAAGAG
15199	45567	A	15289	5	545	SFMTEAKSSPNPAQQLSTQRP SESRRKVPSSSELQTLSCGLQRPC HPGRPGDPYYASASTRTRSPS ARHAVWGRRGCYPEA/AVRAR EGPHPTLAPASTYGLASPPRAD SAHRPRHRSLSRLLPNRKLGGG SADPRHTERTPTPEPDADTRFQ PAETLAGPKTRAAGAGGQPWDS ANASPP
15200	45568	B	15290	121	822	
15201	45569	A	15291	1	1308	MLRMVIGIEISNGQWSTPPCQVL HLEGNDIYNPKEQGLGNTCRW GWMAAGTRRNLCWAPFPFLNP VASLVLHSTIQIALQESKDRVL GTLINSLPVTSTDKANWSRLRA LEVGDGGGLVGLSPQVVGSA MSRCPNCTRKLGSGISPTSSL AEEQGSVVKTSHQGGARCSK EKGWQIL.LILVAGLCQLVVVV QNVGVRKIPRKYLAALRVAIGH ALAIERRRIRVDVADQAQDTDR DDRSFGRDRNRDSDKTDTDWR ARSATSDSDDDYPPRRGDDRFGD KYRDRYDSQYGRGYWYEUR DGPCTDMDRYGGSGRRAFG SGY/RRDNDYRGGRDRYEDRY NRWDDGSCSRDDFSRDDCRY NDRRPPQRPKLNLPKHPNTPKGD DSSASTSQSSRASVFVGAKPV DRAARETKVEEVLQEQDKLQ HQLDEAKLE
15202	45570	A	15292	2	293	
15203	45571	C	15293	56	298	
15204	45572	A	15294	1	273	TRGPWCDSVLRGCSLEQRSFIS VRLLSYL.SACRHPMEDSMDMD MSPLRPQNYLFGSLGAGAKDE LHIVEAEAMNYEGSPIKVTLAT LKMS

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15205	45573	A	15295	3	1024	CGGIHSLVLRGCSLEPAFFYLRS FSPTISACRHPMEDSMDMDMSP LRPQNYLFGCELKADKDYHFK VDNDENEHQLSLRTVSLGAGA KDELHIVEAEAMNYEGSPIKVT LVATLKMSVQPTVFPWGAFEIT PTQWSRLRLKCGSGPVHISGQHI FSKLEEDAESDEEEEDVKLA LSISGKRSAPGGGSKVPQKKS KTLMLMKDDDDDEEDDDED DG*WMDFGWMEEAEEKAPSE RNPIRDTPAKNAQKSNQNGKD SKPSSTPRSKQGESFKKQEKTP KTPKGPSSVEDIKAKMQASIEK GGSLPKVEAKFINYVKNCFRMT DQEAIQDLWQWRKSL
15206	45574	B	15296	1	1107	
15207	45575	A	15297	1	1968	MLASMGVVAEKMKYLSSPYQ HAFHTRJLSMTVNFQAQLWL PNEAGPTGDGDWGGDTHGCP FSPHLPRFIQKQPVWGTRLLQ EHFSCSKLVVPVPSRDIEAFHLH ADLILNTLPSLVIIQIESHSEEL RARVSTYESGEDTIQCITVTWK PKYGATRWKDPGSPDGPLEER RLEDLSTRNNSIRLFRGCGYRV KQNSSQRPNKVCGLPDTGVLL QTKCGLVRNSQRSQNTNKQH EELFSTAGIPENLSRRQEVLP GFTGWVGWTKLTSSEGVTF HHLSATHKLSHASCRQGNFKP KGAMSVTRSTVHPHLAFLSAEI NGKCGRPCVFLGIWAINCGMAI LYERLSALVCVSVSERHLDYT MRFLFDIPPSTLEARIGSPLWAL SLHPLRSSVTSSVELIPECTV AVLEIQYVFLGDTILFTTVGKA RSGTRDRDGGRAQIMQVLQGG GRELDAAPQEGQLLREVRVL GVFPFIPRARDVAVLHTVAVG SADEAHGLLGAAASSTGGAG ASVDGGSQAVQGGGDPRAAR SGPLDAGEEEKAPAEPTAQVAD AGGCASEENEVLREKHEAVDH SSOREENEERVSALKENSLQQN NDDENKIAEKPDWEAEKTSER NERHLNGADTSFVLEDLFQLL

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15208	45576	A	15298	1	2104	MKHLKR VWSAGGGLLHLTL LSLAGLRVDLDLYLLPPPTLL QDELLFLGGPASSAYALSPFSAS GGWGRAGHLHPKGRELDPAAP PEGQLLREVRLGVFPVPTSV DAWLVSVAAGSADEAHGLL GAAAASSTGGAGASVDGGSQA VQGGGGDPRAARSGPLDAGEE EKAPAEPTAQVPDAGG/CASEE NGVLREKHEA\VDHSSQHEENE ERVSAQKENSLLQNNDDENKI AEKPDWEAEKTTESGNE\RLH NGTDTSFSLAEDLFQLLSSQPAEN SL\EGISIWGD\PLPGISIDGHEF FKHIYHVNFQPRLS\QD\VNHL EAILLCPNNTFRDPTARTSQSQ EPFLQLNSHTTNPEQTLPGTNLT GFLSPVDNHRNLTSQLLYD LDINIFDEINMLSLATEDNFDP DVSQLFDEPDSDSGLSLDSSH NTSVIKSNSSHSVCDGAGYCT DHESSSHHLEGA VGGYYPEPS KLCHLDQSDSDFHGDLTQHV HNHTYHLQPTAPESTSEPPWP GKSQKIRSRYLETDRNLSRDE QRAKALHIPFSVDEIVGMPVDS FNSMLSRYYLTDLQVSLRIDIR RGKNKVAQAQNCRRKLDIILNL EDDVCLNLAQKKTREQAQC NKAINIMKQKLHDLYHDFSR RDDQGRPVNPNHYALQCTHDG SILIVPKELVASGHKKETQKGK
15209	45577	A	15299	2	342	RRFRVAAAAGVTA*AVVLSA RPSETWETRGR*RICPSSWP* GI*VNNG*K*RRHSVCQCSLWF PARCIKPYHSMARITQPGTRNKE NGPAGPTALDNVASSDDTGRH RPQT

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15210	45578	A	15300	710	1831	IRMKSKEIHARCIPYHSMARTQ PGTRNKENGPAAGTALDNNVASS DDTGRHRPQTITQLAPGFHPLQ LASFRMRVLFSLSGEGRSRGGPE LQFPASCRRRGEGSPGVRESGSG GIAATSTPNYPNPQDSKEHDIR GAEHQKQEQPAKPPHTARSAY PPQKSSYPANAKATRHSPETAA AKEARAPAAAQQRHQPNPSP APHTRPATAATRQPERRVPSPT HRHPAATRLSPRRQSPSPRPHH DRRGFPRLAETLQHPMCPLPLV ASAGHHRHHRLLLLAPQAPER EASDEIVFSGRSRSGCTEFQE SAMCFPNPGLPDSGESQAVTI LILRKFKQVIWVIEVPLDYKKG SWEYFSRMETHIMPFENIQSE
15211	45579	A	15301	77	1041	IPSCVVSIGIAAAF/HPGLASDAP ARASSWWTHVEMGPPDPILGV TEGFKRDTNSKKMNLGVSAJR DHNGKPYSIHKAAEQIAAKNLD EDYLSIGRLAEFCKASAEVALG ENSEVSKSGREVTVTQISGTSAL RIRASFLQRFLKFSQDVFLPKPT WGSRTPIFRDTGMQLQGYRY DRKTCGDFDITDVEDISKTPAQ SLLLLHACSHNPTGVDPGPKQQ KEIATVVKKT/RNFLALFDMA YQGFASGNGNKDAWAVRHSA NIRHCRCSQSYTKNMVVLHSE GVA GFTMVCKDADEAKRVESH LKI LMCPMYSNPPLNGTRLLLPF
15212	45580	A	15302	1	1263	
15213	45581	A	15303	1	1146	MTGRQSLSPVLSSSLDSMSFT TRSIFSTNYLFLGVSQVSNYGA RPASCMASVYAGAGSGSRISV SRSTSFRGGMGSGDLAAGMAG GLAGMGGIQNKKETMQSLNDR LASYLDRVRSLETKNRKLESKI REHLEKKGLQVRDWSHYLKT IEDLRVQIFANTVDNAGIVLQID NACLAADDPRVKSMTNVTWL PLETEMEALKEELLFMKKNHEE EVKGLQAQIASSELTVEIEKSTT VVTQTQSKVGDAEMTLTELRR TVQSLKMDLDSMRNLKASLEN SLREVEARYTLQMEQLNRILLH LESEMAQSRAEGHQIGEYEA L LNIKVKLEASATYHRLLD DDDD FNLGDLDNSNSMQT/QKT TTT RRVVSVSETNDTKVL

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15214	45582	A	15304	184	370	
15215	45583	A	15305	40	1411	RGDPRVRRRTQSLSPVLSLSPDS MSFTIRSFSTNYRTLGSVQAP SYGARPVSSAASVYAGAGGSG SRISVSRSTFRGGMGSGGLAT GIAGGLAGMGGIQNEKETMQS LNDRLASYLDRVRSLETENRRL ESKNPEHLEKKGPQVRDWSHY FKIIEDLRAQIFANTVEQCPTTV L/LRIDS\RLA\ADDFRVKYE\T EAGPCAQS\VENNIHGLCKVIDD TNVTRLQLEIEALKEELLFM KKNHEEEVKGL*AQIASSELTV EVDAPKSQLAEIMADIRAQYD ELARKNREELDKYWSQQIEEST TVVTTQSAEVGAAETTLTELRR TVQSLIEDLDSMRNLKASLENS LREVEARYALQMEQLNGILLHL ESELAQTRAEGQRQAQVEAL LNIKVKLEAEIATYRRLLEDGE DFNLGDALDSSNSMQTIQKTTT RRIVDGKVVSETNDTKVLRH
15216	45584	A	15306	392	1449	GPWEMLMTIKSHPD\AERQQR VKKLTVQVFWSSASLRER/GKTY LFWPKLKKA\A\IPAA\YREALDE ALGISGGGRDVGERVYKGPSM MANPQKPVLEALSSNKYLHLIC AKHCDRHEGYKDEIKVKEASS RVNGC\VEAMLSAPLPLDRRNE HVESKGKPFMTGLSPRVLSASR RDGLRERKGSFFRTVVLHDTKT DSNSDTE\TNSSTPPRTLLEMQIL SPTWTY\EISSRTLGC\GPSVFQG RASYS\PSVSGPRLGCPLMDGGR MRCPPGNPESC\VEANLIPISVP VAPHAHQH\LVSVFWKITIVIG GKTCVAQNH\SN\EA\KMKQRPEI NHASPPGAF\AWSQS\GEPIASAM TVPA

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15217	45585	A	15307	1	785	MWDVVGQDSSLLRGAGGPGQLQWFGRLQLHLGGLREHRDAWVHSRGLGSCSGMQGAATPTQNGRGCLSPAPASSMEHAAPAVPPCCSWCDSSSRSRWPATATTETGPRTPVPSAQESAVGLLTASLLKGDSGSTGFCPLLMSLAAPGTQQC SLGFCCTFERKRSVSPAAPGTAPELAAALMLMPRKNQIAVYELLFKQGMVVAKEGVHLPRHPELADKNVPNLHIMKAMQSLKSQGHREEQFAWRHFYWHLTREGIQSIQ
15218	45586	A	15308	1	392	
15219	45587	A	15309	1	716	
15220	45588	A	15310	150	372	RRSNEWGVVPVVPARTGGG/HGQKTPPSPLPPSPSPSPPPPPA\APAKIPPLPLPLPPREAPPAPGPALP
15221	45589	A	15311	218	740	KSCPETVSRRKNVGSIKKHQGD KFNVPVCLKMTTKTEFVLCGWVPCRCL/REGEEETVTTLDYSHCS\LEQVPKKEIFTFEKLTLEELYLDAQIEELPKQLFNCQSLHKLSLPDNDLTTLPASIANLNLREL DVSKNGIQEFPENIKNCKVLTIVEASVNPISKLPDGFSQLLNLQTQ
15222	45590	A	15312	96	297	
15223	45591	A	15313	469	5174	KMTSLAQQLQRLALPQSDASLLSRDEVASLLFDPKEAATIDRDTAFAIGCTGLEELLGIDPSFEQFEAPLFSQLAKTLERSVQTKAVNKQLDENISFLIHLSPYFLKPAQKCLEWLIHRFHIHLYNQDSLACVLPYHETRIJFVRVIQLLKINNSKHRWFVLLPVKQSGVPLAKGT LITHCYKDLGFMDFICSLVTKSVKVFAYEPGSSAQLRVLLAFYASTIVSALVAEDVSDNIIAKLFPYIQKGLKSSL
15224	45592	A	15314	267	495	GCLL**CLCIRL/SKNRAERALRPYSDEALRLSSDPFRQRPKG GSGWSLLSVEINQYGYGRVMIGRSNSEVVVL

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15225	45593	A	15315	3	3027	AMEQAGTRPAATEHPRLRRPM PWLLLLPLLLLLLLLLPGPAASQ LRYSVPEEQAPGALVGNVARA LGLELRLRLGPGCLRNHLGAPSP RYLELDLTSGALFVNERIDREA LCEQRPRCLLSLEVLAHNPVAV SAVEVEILDINDNSPRFPRPNYQ LQVSESAPGARFHIESAQDPD VGANSVQTYELSPSEHFELDLK PLQENSKVLELVLRKGLDREQA ALHHLVLTAVDGGIPARSGTAQ ISVRVLDTNDNS
15226	45594	A	15316	1	775	MPCVNGKYNSTIQAGLQMAQI LQDEGPYEVGIDEETGSQKGDG IIRSSRKLFTMALFLETNLLKD PLSRERRWRLELDGSGGREKG VAVFLRSAGIRQVQVAMEQAG TRP/AATEHPRLRRMPWLLL/L PLLLLLLLLLPGPAA/SQLRYSV PEEQAPGAL/VGNVARALGLEL RRLGPG/CLRNHLGAPSPRYLE/ LDLTSGALFVNERIDREACLSG AGANPVA/SAVEVEILDIN/DNS PRFPRPNYQLQVTARCWWTSW
15227	45595	A	15317	2	165	
15228	45596	A	15318	1239	2251	TCSSRRARRPRGRTVSQVRGPA PWAPRRARLQQRGSLRGAARS PASPTSA/PSYSRASASAGPAAL QPQGA VTPGPSANLAAPGGTL VPAEGPRMPVTAQSASSHPAP SASQPSPPAAASRGSLSVPEVT ATLLASASSPTLDATRDAPATP RIAAPPGSATSSRGLGSAQGS LGTKEISIDSFGLGSPAVTQRTT APPDSAAALSQDTRPEAAGSWPG PQTGACSVGSGTDRRDTAAAT EAQHLSSESKEKTSAQKSGNCF GILKADFTISTLMDPEEMKDQF LRQVRLPSTDALKKQSI SNYRP PGKGKPPQYLGDSA WNMVSA GTIEGFYKE
15229	45597	A	15319	46	2859	



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15230	45598	A	15320	240	924	NGEQKCILCHIVYSSKKRHSHE CRRCGPTEVSLSAAYAKHISGQL HKDNVDAQEREDDGKGEESSE DYFDKELIQLIKQRKEQSRQEPS SSSQEVNSDDSSATFSVSFVYV WLKTILLTWPKEVKRLDTPGL ELWL.VPNMAELSEPEGVDWK ERCVALESQMKFRVQASKIRE LLAEKLLHNERLEYRDQRKDS ASFQKKQFTYKASGIEMASDL SKAPLEIRG
15231	45599	A	15321	3	755	LRLPRSTRTRRGIVWRTGAAM GKVNVAKLRYMSRDDFRVLTA VEMGMKNHEIVPGSLIASIAL KHGGCNKVLREL VKHKLIAWE RTKTVQGYRLTNA GYDYLALK TLSSRQVVECVGINQMGVKGIE SYIYIVANEEGQQFALKLHRLR RTSFRNLKNKRDYHIHRHNVS WLYLSRLSGMKFCYMKQPCD EQGSQRLRIHMMGGQMWAAPIC QPRDLFVWFVLRAEACACGGA TSQORGALGVTSTCYRD
15232	45600	A	15322	1	1028	MNKTITTQEEVLPLQADV VQRE EELNSLKQKLA AALLAEQEPQP ERLVSELQLPRKAAVFDQDEILR SSRQLVLPVLGVHRHVLVCC GGLRCLAGGLAAA SVGRGLG VDCDVVEMS NLAYQVLHGEAL AAQAKAASAAASLRGLNLAPP PAETVTNCADGGMLRVLTGVL GCLQPLKVLKIAASLGPSYSGS LLLFDA LRGHFCCIRLSRCLDC AACGKWPTVTTHLLDYEAFCGS SATDKCRSLQLLGPEDRVSVTD YKRLLDSGAPHLLDIRPKMEL PRKAAVFHDEILRSSQLVLP GVLRLHLLVGGCGGLRCLPAQY LAAAI VGRGLVA YDVV
15233	45601	A	15323	92	778	QGTTRRWSLGTCSLMTRTQFEV CTKVCVQESLQRPGEELKTRCP SVGAGYVNYGTPAHERJ/GAAV KTGREADKPEVTKTQFSTRK DE/TSLFGVPLQ*LLARHRAPP* RRT/RRLLEVARTPMLPAQASR SELAARQDSA WASPAAPASN/ RSVLRRCLLSARPP LCGPL/LRV LPSWRRQIRENSAED* LHSEY RANRIRRRRGHPEN/WTKS*LE NPENLTRSSSAPAPC
15234	45602	A	15324	142	500	

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15235	45603	A	15325	3	343	
15236	45604	A	15326	1164	1648	PLMTAPWPSPCCCWRLSSGRP AGRQRQLPTSTTTANQPAPSR KKSTSRKKQRNLPAVSPAMVAI VRRSCDLYRWSVLHIYASQERR VRDAAKPESD\RRKRTTTKTRR/H WRYIKELESRQPGVADMRQQP TQLVEVPWNEQTPEQRQQTQLQ RQHGRETRCSV
15237	45605	A	15327	28	417	
15238	45606	A	15328	2	440	
15239	45607	B	15329	1	441	
15240	45608	A	15330	22	584	IRGRVDPSPSAVEPPPKMQIFVKT LTGKTITLEVEPLGYG*KNVK AQASRDK\EG\PPDQQLIFAG KQLEDGRTLSDYNIQK\ESTL/ HIFVLRRLGGAKRKKKSYTT\ PKK\KHKKRKG*SLAVLKYYK WDE\NGKISRLRRECPS\DECGC WGVGQVTFDRHYCG\KCCLT LLFQQTRMTSNCMS
15241	45609	A	15331	3	954	LDARRHWEGTPGTHTSPTDAW ADAWGKMAGEKVEKPDTEK KPEAKKVDAGGKVKKGNLKA KKPKKGKPHCSRNPVLLRGIG RYSRSAMYSRKAMYKIRKYS AKSKVEKKKKKVLATVTKPV GGDKNGGTRVVKLKMPRY PTEDVPRKLLSHGKK\PFQHV RKLRASITPGTILILTGRHRGKR VVFLKQLASGLLLVTGPLVLR VPLRRTHQKFVIA\TFKIDISN VKIPKHLTDAYFKKKLKRPRH QEGEIFDTEKEYEITEQRKIDQ KAVDSQILPKIAIPQLQGNLRS VFALTNGIYPHQLVF
15242	45610	A	15332	670	1008	WCILGVTPSLMSRTALFLSRHT FFA/RSHSAASKL/EKKKKEKVL ATVTKPVGGDKNGGTRVVKL KMPRYPTEDVPRKLLSHGKK PFQHVRLKLRSPITPGTILILT G/RHRG
15243	45611	A	15333	1	708	

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15244	45612	A	15334	1	1754	MRNEISDLTEELHQKEITIAITVT KKAALLEKQLKMELEIKEKML AKQKPWACLNVNAMP AIQVVFN LGRFRKCQDPHKAQEWVYPGY SGSDCEVFPEIMTSKNREEAMP EWKLWKKVVLSGATDAPSWD GPTFTDLNVFAGNMGLSDCTL LGKIWKIPGHFLHTSGPVSFHT KGLLNTPTKERWVGGFGSEGR GVPEPGGCGVLAVPRRTPPSA AAMTGERLGRAWAGDRAAA SRSAVPVGTFGMMGWRPVAFG KNAKAYRGFGGIVTSLTPSCDK VTLLFVRILPGSGQSRDQSSPEK LTDTKSTSNKAYGFPECLRRPE STHIFFYDHLQLGSEQPRGTGKT PLKWVSQKTLERETRQCQALVI WTD CDREGENIGFEIIVCKAV KPNLQVLRARFSEITPHAVRTA CENLTEPDQRVSDA VDV RQEL DLRIGAAFTRFQTLRLQRIFPEV LAEQLISYGSCQFPTLGFVVERF KAIQAFVPEIFHRIKVTDHKD GIVEFNWKR/LSTL*PHGLPSSL SVVCGVRSLSRCSVGF CWRSTP DPVCLCITSGGCRTASIAEQQL LPDPYSRFSIPEGQPI
15245	45613	A	15335	3	125	
15246	45614	A	15336	764	1005	
15247	45615	A	15337	1	3533	MELVNCVLMSTLGN TCCPMAL AMFRSSSLPRPGHSLTGSPLRV NLIHIFPLNDFHQNVVKINK DPPLGAAIGKESCPADNELHSL ERRPLSPKL VQALGVAGLSRPG PPHTGCAIWL LITDHKLLSEIL YDLLHQGLDILADPPDEGGIPR GKNLVELLQLPGLEEDKAFQKE IGLKILVFKAYSTLSSDGPPLFS ALRSLQGVQSSKVGESREEKSQ TEEEDPGNPWPVQSLGASVSS GKWGCLRTKP

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15248	45616	A	15338	1	2800	SISGPGQEAVPLRPKAEPEPGSG MVWDRQTKMEYEWKPDQGL QQILQLLKESQSPDITQRTVQQ KLEQLNQYPDFNNYLIFVLTKL KSEDEPTRSLSGILKNNVKAH FQNFNPGVTDIFIKSECLNIGDS SPLIRATVIGILITTIASKGELQN WPDLLPKLCSLLDSEDYNTCEG AFGALQKICEDSAEILSDVDLD RPLNIMIPKFLQFFKHSSPKIRSH AVACVNQFIISRTQALMLHIDSF TENLFALA
15249	45617	A	15339	8	450	TWSWSPQAPSWARPSSQARAV SLLVARGQLCQGSRRRSGVGS VDAGAARTALRTLGTPLRRRP CGLGSHTKAAASGQDQGRGS RGRGSLGGRELGANEPLYQ/WR AHTLTVLFLTCTGLGYVTLEET PQDTAYNTKSEIAVVHLS
15250	45618	A	15340	246	559	MPVAVMAES/AFSEKLLDQCE NQELEAPGGIATPPVYGQLLAL YLLHN/GQRJWQRDFPGIYTIN AHQWSETVQPIEALRDARTR RAFALVSQAYTSIIADDF
15251	45619	A	15341	129	915	RSQTQGRSAATAALNVIAGATP EQSGWGLAVRTVQRRGRPAK MPVAVMAESA/VSFKLLDQC ENQELEAPGGIATPKVYGQLL ALYLFHNDMNNARYL*KRIPPA IKSANSELGGIWSVGQRIWQR DFPWG/IYTTINGHWSETVQPI IMEALRDATRETA/PLPVWSQA YTSIIAR*FCQPLGLPV/EEAV KGILAEQGWQA/DSITTRNGSCP GKPVCRGPWDVFPFNKISLYS EPAPVPPINPNEQQLARLTDYV AFLEN
15252	45620	A	15342	1	529	MATLTISRAQTEADAYYCHRI KLVEGLDERTHKAYLSSSGK GCEFHMKPGSPGLGPDILGWSA QSALIQPPSVSGSPGQSVTISCT GTSSDVGSYDYVSWYQQHPGT VPKPMIYNVNTQPSRV/DRFSG SKSGNTASMTISGLQAEDEAD YYCCSYAGSYPPVFGGGTKLT
15253	45621	A	15343	399	737	WISGGNSCATT/LSDAGLSTTSN SIGSATVGARQAESASSQSGGGA LGRHCGASGKCAESLRREPVG ATNQWAPGWVVGPRASDSSHV VIGLGRSAWSPAEVTPSLIPGRG RTK

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15254	45622	A	15344	1	4320	
15255	45623	A	15345	1	966	MNVNLAEESEKGETVGEIKG GGIQMVMLASQPLTSYCAARFI TGHGQKLKSELKKTLLQVIMLNI QKVRIPTRDGYNEKDILSTGKN VEKLELSNIAGYPSNIEKKEYQE QSVLSCCSEKIDANPKSVVCSF FMQEQCTKGKRFILPGTSLVD RHLRYFGILPTVSNAAVVKEVP TVSNAAVVTEAPTSNAAVVT EAPTSNAARVMEVPTGSNA VVTEVPTGSNAAVVTEAPTSN AAVVKEAPTSNAARVMEVPT GSNAAVVKEAPTSNAARVME VPTGSNAAVVKEVPTGSNA VKEVPT/GSNAAVVKEAPTSN AARVMEVPTGSNAAVVKEAP TSNAARVMEVPTGSNAAVVKE VPTGSNAAVVKEVPTGVTLRW SRKRPRE
15256	45624	A	15346	1	702	
15257	45625	B	15347	238	546	
15258	45626	A	15348	632	2361	FQSRFTLKNWNPGEQSQKII/CF QLGERAYQTDVLVKKVPRQSSV FSENQRMNNPERWFESTGCGK TYNQNRFAFNQHQRFHSGEKTY EHNECGKAFSWPSILSKHQRIH TGKLLYTCEDCGKSFVSHSYFI QHCKIHTREKPYECIKCGKAFS THSSYVQHLKIHTGEKHHECNQ CGKAFSHSSNLIHHQRIHSGEKP YKCKECGKAFNRQSNLIHQRI HSGEKPYDCKECGKAFSTQLFL IQHQRIHTGEKPYECNECAKFS LNRTLTVHQRIHTGEKPYRCNE CGKSFQSCSQVQHQRIHTGEK PYICNECGKSFGARLSLIHQRI HTGEKPYGCREKPYECSECGK AFSQSFNLIHHQRTNNGEKSYE CNECDKAFSLSSLVQHQRIHN GDKPYECHKCGKAFSQGSHLIQ HQRSHIGEKPYECNECGKTFGQ ISTLIKHERTHNGEKPYECSDCG KAFSQSAHLIHHQRIHTGENPY ECSECGKAFNVCSLIQHHRHT GEKPYECSDCGKAFSQHSQFIQ HQRIHTGEKPYMCNECEKFSFA CLSLIQHKRIHTGEKPYVCAKC

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15259	45627	A	15349	3	354	EAFGGERVSSMSGLSGPPARR GPFPLALLLLFLLGPRVLAI HLPIINSRKCLREEIQQGPASDW RVRDLRPVWGRWRPAQ/RTSR S QILLAIFFSTPKRMQPRGNLPLTT EDYDMF
15260	45628	A	15350	283	393	YVYRRYGRFE*NDPSSALMST* GKRCQDCLDQRENKK
15261	45629	A	15351	1	351	
15262	45630	A	15352	1	867	
15263	45631	B	15353	1	1323	
15264	45632	A	15354	1	3669	
15265	45633	A	15355	362	1039	LESYLQPSAEGKTVSVFGETC ATPVGP/AAGPHTQ/LAQNIVTS WL.TGGRFIELKTVQILDRIELE KPCIDAEDCFNTEWSTFTLL KAWDEYLKAWFALHLEAMF QPSDSGKSFIFNMSVGYNLEGQ PLNPKNYPSQGVPRVLKSHRQD YLVGNKLSWADIHLVELFYVY EELDSSLISSFPLKPHTHVDNT KKGSHPHMCAYTIDYVNNPND RMPQREITFVS
15266	45634	A	15356	74	208	QRLTKLRETSRRLSSWQRSPSS TTSMHGAEWSPRWLLAAGV EFEEKFIKSAEDLDKVRNDGYL MFQQVPRLRLMG*SWSRV
15267	45635	A	15357	308	735	NQRCTWAYYSMTMEIFLISCVKI LSVRYAVQQLKTGVFCSLETQP SKMAPAKKGGKKKGHS/AIIE VVTQENTINIQQHIHEVGFKKC APRALKEIQKFAMKEMGTPVY LIDTRLNKAVWAKIRNVNTRI HLCISRKCNEDKE
15268	45636	A	15358	3	323	LSSLASMSFTTCSAFTNYWSPG SVQVPSYGTQPVSHAASVYAG LGGSGSRISVSHSPMAGGLAG MGGIQNEKETMQSLDRDLASY LDRVRGLETENWKLESKIQEH
15269	45637	B	15359	1	991	

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15270	45638	A	15360	40	1030	RGDPRVRRRTQSLSPVL.SLSPDS MSFTTRSTFSTNYRTLGSVQAP SYGARPVSSAASVYAGAGGSG SRISVSRSTFRGGMGSGGLAT GIAGGLAGMGGIQNEKETMQS LNDRLASYLDRVRSLETENRRL VESKIREHLEKKGPQVRDWSHY FKIHEDLRAQIFANTVDNARIVL QIDNARLAADDFRVKYETELA MRQSVENDIHGLRNVDDTN YHTDLQLETEIEALKKEELFMK KNHEEEVKGLQAQIASSGLTV EVDAPKISQDLAKIMA/DIRAQ YDELARKNREELDKYWSQOI EESTTVVTQSAEVGAAETTLT
15271	45639	A	15361	1	438	LHSDDL.SLQML.RCSPVATAASY TSGPGAPISSSFSRVGSSSFQGG LGGGFGGASGIGGITA VMVNQS LLRPLNLEVDPNIQARF/VHTQE KEQIKTF/NNKFASFDKVRFL EQNRMLEAKWSLLQQQKMAQ SNMDNMFQSYNNL
15272	45640	A	15362	176	1455	EIFPLVIQKSYKVSTSGPRAFSS R/SYTS GPGAPISSSFSRVGSSS FQGG LGGGFGGASGIGGITA VM /VQVLHTQEKEQIKTF/NNKFAS FDKVRFL EQNRMLEAKWSL LQQQKMAQSNMDNMFQSYIN NLRWQLET LGQEKLLKLEAELG NMQELVEDFKKKYHDEINKHT EMENEFVLEKDVDEAYKNKV ELESHLEGLTDEINFLRQLHEEE IWELQSLSDTSVVLSSSHSLD MDNIITEVKAQYKEIANCSWAK ADSMYQIKYEDLQMLARKHGD NLRCTKTDIEMNQNVSWLQA EIKGLKGQRASLEATITDAEKR RELAIKDANTKLLLEAALQW AKQDMAQQLRVYQELMNVKL ALDIKTATYKKLLEGEESWQES RMQNMSIYSKTTSGYAGGLSS AYGGLTSPPLSYGLSS
15273	45641	B	15363	70	915	
15274	45642	C	15364	62	217	
15275	45643	B	15365	1	612	

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15276	45644	A	15366	3	841	STPKMPKGGKAKGKKVAPAPA VVKKQEAKKVNVNLFKRPKN FGIGQDIQPKRDLTRFVKWPRY IRLQRQRAILYKRLKVPPAINQF TQALDRQTATQLLKLAIKYRP ETKQEKQRL/LARA/EKKA PKGTFTKRPV/LRAGVNTVT LVENKKAQLVVIADVDPIELV VFLPAL/CRKMGVPYCIKKGAS LGRIVHRKCTTVAFTQVNSD KGVALAK/LVEAIRTNYNDRYD EIRRHVGGNVLG/PKSV/ARIAK LEKAKAKELATKLGLNVHC
15277	45645	A	15367	2	1006	WINLKGNI LLRKRSLTSNFWPCK LRSRKHTTRNLRLMNLWLSSH PPQQSNTKPPWCCQLSCSTSLLT LLGTSLPLLSYL IHLIPGPRQYP VIHRTSTLLQHISVGKEKFHKS QHWGFCNNVMMQLQLSPLK GLSLVDKVNRPALSGTRVLAS KTAWRJFQEP/SEPKTKAAAPG VEDEPLL RGNPCRFVIFPIEYHD IWQMYEKA EASFWTTEEVDLS KDIRHWESLKP EERYFISHVLVF FAASDGIINENLVERFSQIVQ/TE ARCFYGFQIAMIENIHSEMYSLLI DTYIKDPKEREFLFNAI/ETMPC VKKKADWALRWIGDKEATYG
15278	45646	A	15368	3	1368	QAQPMGRVGGMAQPMGRAGA PKPMGRAGSARRGRFGKCWSE GSPVHPVPAVL SWLLALLRCAS TMLSLRVPLAPITDPQQLQLSPL KGLSLVDKENTPPALSGTRVL ASKTARRIFQEPTPKTKAAAP GVEDEPLLRENPRRFVIFPIEYH DIWQMYKKA EASFWTAEED LSKDIQHWESLKP EERYFISHVL AFFAASDGIVNENLVERFSQEV QITEA/RCFYGFQIAMIENIHSE YSLLDITYIKDPKEREFLFNAI/E TMPCVKKKADWALRWIGDKE ATYGERVVFAA AVEGIFSGSF ASIFWLKKGRLMPLTFSNELIS RDEGLHCDFACLMFKHLVHKP SEERVREIINAVRIEQEFLTEAL PVKLIGMNCTLMKQYIEFVADR LMLELGFSKVFVRVENPFDFMEN ISLEGKTNFFEKRVGEYQRMGV MSSPTENSFTLDADF



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15279	45647	A	15369	2	621	RFIKMLSRHHQHVVHVLPLRLA PLPVAMEEEIPALFIDNGSGM/C KSSFA/GDNALRAIFPSIIGHPRH QGVMMVGMGQKDSYVGDQAQS KCGILTLKYPIKHGIVTNWDDM EKIWHHVFYNELCVALEEQVV LLTEAPLNPRANREKMTQIMFK TFNTQAMYVAIQAVLTLHSSGC TTGIVMDSGDGVTHTVPIYERH TLPHTILHLDL
15280	45648	B	15370	1	966	
15281	45649	A	15371	2	228	
15282	45650	B	15372	1	816	
15283	45651	A	15373	256	384	RKLLNEAPC*PMR*HSLLNRLA TSCNSWTVPVVPKFSKLRRGL
15284	45652	A	15374	145	375	KIAGKNRLNRNQCKERKVVQL WISEKKQREAVEDPSLDCCH KFFPGS*ERLHG*KRQWF*PP HTVEKQMRSCLL
15285	45653	A	15375	319	482	
15286	45654	A	15376	4776	5910	VCSTAGDVNGVCLLYDLHLHIA VASGSAGKECFARKPLLAEGV IYDCLQEFKEKKLVPA TPHAQV LSYEALLSAHD TIAQKDFEPLLP PLPDNIPESSEAMRIVCLVKNQ QPLGATIKRHEMTGDILVARIH GGLAERSGLLYAGDKLVEVNG VSVEGLDPEQVIHILAPRCLSP MSLADLPPLPREVLVLGAKLPV PSSSFLLPREDCCGQPQSSLIT WFAPLETEPGVDRA MRSRGTIME KVVPVSDPPVNSQMVVYRA MTEYWPQEDPDIPCMDAGLPF QKGDILQIVDQNDALWWQARK ISDPATCAGLVPSNHLK/RIWT EPGICIFTKRLRCSGKQREFW SQPYQPHTCLKSTLCEYCNCP
15287	45655	A	15377	2	405	WSLVTRRALARVGLPG/SPPPRL LLLPLLLGWGLRVAAAASASS GAAAEDSSAMEELATEKEAEE HRQDSVSLTLTILLTLTILTIWL FKHRRVRLHETGLAMIVGLEK ITIGVLDITGWPYCTIQPYNGFL
15288	45656	A	15378	1	3804	
15289	45657	A	15379	349	622	RPDVANLAFLARKEGTRGFLS KKTAEASRWHEKWFALYQNV LFYFEGEQSCRPGMYLLEGCS GGTSPRSFRSSSRDSPISPLHPT AK
15290	45658	A	15380	314	483	

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15291	45659	A	15381	352	822	DPRRVQAFPAKMKFNPVTSDR SKNRKRHFNAPISHIRKIMSSP LSKELRQKYNVSRMPIRKDDDEV QVVRGHYKGGQIGKVQVYR KKYVYIYIERVQREKANGTTVHV GIHPSRVVITRLKLDKDRKRIS DRKAKSRQVGKEKGKYKEETI EKMQE
15292	45660	B	15382	80	432	
15293	45661	A	15383	11	888	VKCRKAEGRRSRLQTFEESQA VEAAMANVPWAECVKFQAA LALSRVELHKNPEKEPYKSKYS ARANMIEVKALLGPAPIEDED ERPEAEDGPGAGDHALLGPAE VVEPEGPVAQANRLRLAVNEF HLGVNHIDTEELSAGEEHLVKC LRLRRYRLSHDCISLCIAQQT WRCIGVRDPTTSSCAFLSTSTPT VHVSVKIQTGPLRPSNSTLVD DMESSFQTCFASPLSQDYVNGS NQEEIGTGVDRCIHKFLDIARQ NISFLQKRLQLSVQKPEQVINED VDVSELNRE
15294	45662	A	15384	1864	2705	WPGKVLAHRLHPWHRDPHGS GGGAGQELRRQGGCLEQLLYD AAHAQRLPPLDSVLPRAALPQD CQRASACEGDP TLLRPSHSPGH PRGAER/VPSTACIQRSWEGR/ WNRALQQVGGKSPWRGEYK EPRHPPPNQANYHQT/ACPAE R/CFRQGPQGGQLRRQQAEP SSLLSHQSPQSQTSLP*L*AR RSLGCGNPYLCPPWSQPLPETP AHQSGKQPSRSRNCSSWK*NYS STACPSHFLWRSRKFSTRASAST ASPCRMTVRRTHQRFKARGTP
15295	45663	A	15385	1113	1378	RPHAESFVSGGIDPPGPGPGST GPGPL/ERQPCSLTSWPREPSSS SMKMLTQGPSTLAPYKGTILGE VNPAHAISSARNTSSRTSV
15296	45664	A	15386	285	722	TPAHGVPVPGQSGRHRHW/QSA ARSLQPSAW*PKTGSLFATTW RCQTRASTCSAHWPLMAASPG AGGSSMASWR/DRP*PCPPPPAP HLPEAAFLR/CHDACP*NTGSA VPRGSCQPPAQQWDQGLAATR WGQAERLPRIYNWALAPP

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15297	45665	A	15387	207	605	FQASAEERFGTEDD/GSLRTRPPV MQSHQWPWRRPRPLVSRGRPQ TTPERHDSGGLPLTPRMESH EDEDLA/EGCRWP/EAGTVGV GPRAQGAQR/QAVLARKKHR RRPSKRRHRWPYLELSWA EKKQQRDERQS
15298	45666	A	15388	193	407	ACPKTSKNLRQRRLWNLA KHEF/SVDMTCGGCAEAVSR VLISLEVRVKYDIDLPNK/K VCIESEHSMDTLATL
15299	45667	B	15389	321	625	
15300	45668	A	15390	275	690	SLWPPVIRG/SPKGNRPAIL TYHDVGLNMANKKSGDHP EREGTPRSFREVVSFAFG PGSSKLQIPKGSAPRCG VPGRGARRELQSFRA GPRTQGSVPVGPQCS RRLRSAAQEE SAKARHGGLRAHRS FSWDIRMSKERKFS
15301	45669	A	15391	2	137	PGRYRPN*LLSDASPGAG NEFQSTFLTPTILPSLRFP VLYTPNS
15302	45670	A	15392	1	648	MSLRKLTIMVEGKGGPN IPHACGCRQRSSIKVSL LPAVTSKSESPKEPEQ LRKLFIGLSFETD ESLRSHFEQRRLT DCAVMRDPNT KCSKGFVFTYA TMEEKYHTV NGHSCEARKALS KQEVASASS QR/GRSGSGNFG GGHGGGGFGG NDNFGHGENFR GHSSFGGSHG GSGYGGSGDDY SGFGNDGSNF GGGGSYNDFG NYSNQSSNFGP
15303	45671	A	15393	1	3629	MTGICYTTEDE RSYKKNAPTA ASKKQKETQK FCLRV DGGQKQV KLSVLQEK SAQLTVQLK SQKFL GHPTAGRGR SELCLDL PDPPE DPALETRSV GTWVRER DLGMP DGEAALAAK VAVLETQL KKAL QELQAAQAR QADPQPQ AWPPP DSPVRV DTVRV VEGPREVE VVASTAAGAP AQRAQSL EPYGTG LRALAMP GRPESPP VRSQEVV ETMCPV PAAATSN VHMVKK ISITERSCD GAEMK WEDQNIGD

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15304	45672	A	15394	1	1515	MGQVFRVVTGVGEQPGHPDQF PYIDSWLSIIQNHPKWLQACFET YCKTLMAQIKPGTIERDCKASV KEKDSQEKQKKPVLQAPPEELE SPALYAPIYPSLARLRQEAAAPA APRGSDSEESTPQATPCREEPEP LPEKETSSSYRSNAVHFLIHNP WADCKQLQLSFLNTEEHHRVI QAAFWLENNAPAGTGYIRQY AQQALPIEADTGWDPNQAQGL QSLQWYREALLNGIKAGGKKA TNIGKSVSEVCQKPDSEPFYER LCEAYQLYT*FDPEAAGNQCM VNVAFVSQAQGDIKRKLQKLE AKAVLRGKFIALNTYIKKAERA QTDILRSHLKKELKKQEQTSSKA SRRKDVTKIRAELEIETTTTKI QKINETKSWFFEKINTINRPLAR LTKKRSREKLQITSLRKEMGDTT TDTTEIQKIIQGYEHLVYAHKLE NLEEMNKFLEKYNAPSLNQEEL HTLNRPIRNSIEVVVIKKLPTKK/ SPGQDGFRAESYQIFKEALV
15305	45673	B	15395	1	1077	
15306	45674	A	15396	69	290	YYFDSPIHPLHLSGTLRPGGSQ FPCDPQFLCRLHLTLASL*SLPG DLLRGLLHKLVCVRERLDLASL YAVGR
15307	45675	A	15397	62	201	
15308	45676	A	15398	3	429	LPSSVPRQPKMQARCLSRISIRA VEIYESDLEEGQGLLHEFSQFVL DRPPPTQSYAQELVHTCYLHT LASL*SLPGDLQRGLLHKLVCVR AERLLDASHHAAVGRSEFFW TPYTHSPPGAGVGHPPWHTRL PWGVPAEGHQ
15309	45677	A	15399	303	612	PSSSIPVYHCSLRGICPVLGLKR AANVGVSLEASPLLSTPGGLGI CLSCGGTRTVGSRVGSIFPW*G EGTTGITGSISCKGSSDVGSNRT SGVDFPRRVE
15310	45678	A	15400	1	273	

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15311	45679	A	15401	1	406	MEEGWIRLPDGRVAAPQLLGA AVVLAVQETTHRQESLEKLL GRYFYISPLSAKTVRQRDFA DFGTTIKQDFRLLGGTSDRLL QLSQGQAVKGNQLLPVSLTSQ CQVYKCVWNWVVLGLTDFKN EATDPPGVKLQTFVSVTTHKG SVDPNSEKQDQLLQRAKEQSFH SVEGDPSRDFADFGTTIKQDFR LLGQTSVDRLLQLSQGQAVKG NQLLPVSLVVKRKTLPANTQTA SPRALADSLMQLARQVSR*RAI SCCPSH*LPSAKCISVSGIGGFL VSLTSRMKPRTLLE
15312	45680	B	15402	1	930	
15313	45681	A	15403	391	617	LQLQPTG/CNFLYFYVGYMKIL GFCFHIVEERGGLWYPCFYC NLSSLGG*RSCSHTRIVPSLLMP KLGPGGQVC
15314	45682	A	15404	1	1860	
15315	45683	A	15405	1	531	
15316	45684	A	15406	2302	2691	
15317	45685	A	15407	520	2883	
15318	45686	A	15408	3690	4727	ENCHWGCHEPCDIGSSIISPLA YWEQYHRVTYISRDTGESSIVFP ALVTMLRNLFILAGSSDPHFHT PMYFFLSNLSWADIGFTSATVP KMIVDMQSHSRVISYAGCLTQ MSFFVLFIACIEDMLLTLMAYDR FVAICRPLHYVPVIVNPHLCVFFV LVSFLLSLLDSQLHSWIVLQFTF FKNVEISNFVCDPSQLNLACS DSVINSIFIYLDSIMFGFLPSIGIL LSYANNVPSILRISSDRKSKAF STCGSHLAVVCLFYGTGIGVYL TSAIVSPPPRNGVMASVMYAV VTPMLNLFYISLRNRDIQSALRR LLSRTVESHDLLSQDLLHPFSC VGEKGQPH
15319	45687	B	15409	1	3195	
15320	45688	B	15410	1	1819	

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15321	45689	A	15411	399	1089	LLTPRTDLQEMPLDNAIEIWEYWT DGSYLGRGEVFQWYDHLALIFVP QTGIEDVIWHIEALPNYIQKVCE RRNPYNQILSLQCAQHEIFLVS WKLVCQKQLEGDDMLVGTTA SNLLLESEQSTSNLNEKINHLEY EDQYKDNFEGEGNDGGILEDK LISN/NMGGPDSPDSVPNVE/P/M PTMTDQTTLPNNEEEAFALPEI DITVKETNAKRKRKLIVDSVKN LDSKTIRAQLNDY
15322	45690	A	15412	3	809	FKDDDDMLVSTTTSNLLLESEQS TSNLEKINHLEYEDQYKVDNF GEGNDGGILDDKLISNNDGGIF DDPPALSEAGVMLPEQPAHDD MDEDDNVSMGGPDSPDSVDPV EPMPTMTDQTTLPNNEEEAFAL EPIDITVKETNAKRKRKLIVDSV KELDSKTIRAHLSDYSDIGTTLD LAPPTKKLMMWKETGGVQKLF SLPAQPLWNNRLLKLFTRCLTP LVPQDLIKRRKGGEADNLDEFL KEFEHPVPREDQQQ*HQQRD VIDEPII
15323	45691	A	15413	1	595	MVNRSHFRGVGPECHQQNSHG HLNSITETSNSTLRAAPLQPTR DPSDMAVFEIDELPEGA VKPPA NKYPIFFFGTHETAFLGPKDLFP YKEYKDKFGKSNKRKGFNEGL WEIENNPGVKFTGYQAIQQQS SSETE GEGGNTADASSEE EGD VEEDGKGKRKNEKAGSKRKKS YTSKVTKKLLIVINVICISIKHF
15324	45692	A	15414	41	785	GKGWAGGASGPANHGPAAGG RSPGMLRGDQGLPGRGAAGM ARPRSREYKAGDLVFAKMKG YPHWPARIDELPEASVKPPTNK YPIFFFWHPMKPAFLGPQDLFP Y*EYRGKFGKSNNRKGFNEGL WEIENNPGS/IRFTGYQAIIQQQ SSFRTEGEGGNTADASSEE EGD RVERDGKGKVRKNEKAGSKRK KSYTSKSSKQS/RKSPGDEDA/D KDCKEEENKSSSEGGDAG/NDT RNTTSDLOKTSEGT

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15325	45693	A	15415	1	1272	MWSGAGPGLAVWPQLVTVLSL SLSRNLCKWGLSFLACLLGDD MADAAMQHYGVNGYSLHAM NSLSAMYNLHQQAQQQAQHA PDYRPSVIALTLAERLADIILEA RYGSQHRKQRRSRTAFTAQQL EALEKTFQKTHYPDVVMRERL AMCTNLPEARVQVWFKNRRA KFRKKQSLQKEQLQKQKEAE GSHGEGKAEAPTPDTQLDTEQP PRLPGSDPPAELHLSLSEQSASE SAPEDQDPDREEDPRAGAEDPKA EKSPGADSKGLGCKRGSPKADS PGSLTITPVAPGGGLLGPSSHSYS SSPL/SPLPSAGAIPPAHGGHQQ PGALLVLRSGSGPCCSGGCC CALPGRQHGPAGLTA/SASPTTS PCQQPLLP/SQGVWGSPLLPAAP AGLAPASATLNSKTTSIENLRRL AKQHAASLGLDTLPN
15326	45694	A	15416	1	1152	
15327	45695	A	15417	8	82	
15328	45696	A	15418	1	1350	MGSEKDSSEPRSTSLHAAAPDP KCRSGGRRRLTLHSVFSASAR GRRARAKPQAEPPPPAAQPPPA PAPAAAQGPPEALPAEPAAEA EAEAAAAAEPGFDDDEAAEG GGPGAEEVECPCLVLRLPPER PRLLSCPHRSCRDCLRHLYLRLEI SESVPISCPECSERLNPHDIRLL LADPPLMHKYYEEMLRRLYLAS DPDCRWCPAPDCGYAVIAYGC ASCPKLTCEREGCQTEFCYHCK QIWHPNQTCDMARQQRQAQTLR VRTKHTSGLSYGQESGPADDIK PCPRCAYIHKMNDGSCNHMTC AVCGCEFCWLCMKEISDLHYL SPSGCTFWGKKPWSRKKKILW QLGLTGIAPVIGISLIAGIAPAM VIGIPVYVGRNIHSRYDGKEN/S KHKRNLAITGGVTLVSIASPVIA AVSVIGVPIMLAYVYGVVPI SLCRGGGCGS
15329	45697	A	15419	2	540	

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15330	45698	A	15420	1	530	SRTTPGKAPKETWGDQAGSGK GGQGPTRKIPRRTSSHLPPSPA AGDCPLATPESPPLAPETPDE AASVAADSDVQVPAGPAASPKP LGRLRPPRESKVTRRLPGARPD AGDGDHLSAVAERP KVS LHF D TETDGVYFSDGEMSDSDVEAED GGVQGRPREAGAKEVVRMGV LAS
15331	45699	A	15421	1	2989	MLLVMYWAPAPPPVHMSQFLT TGPKCLELSLDHGRDSQEITAS GLLWLQHAACGLAQWNQKPH PPFLTLLQAEPPFERARSCDIYIR IKMLQTAQQHQVGLAPTERKE ALRGSPQKSASGQRPGLDR ELLMLIKISKCLRVPSGPSSVLG TESTGPVPGELVLCQQDAGATQ EGVCYGRELMICRCDSPRLME PWGVKGTPFVFTDLITAMKIP DSYQLSPDDYYILADPWRQEW EKG VQVPAGAEAIPE
15332	45700	A	15422	218	404	
15333	45701	A	15423	1	422	
15334	45702	A	15424	160	470	LTMLFAACVFSGDEIMASEERQ PMEEEWSRSSTISGEDGERWTP DTAGKAAQGIAGDVVWVSLP PSKVSAASKPKS/HHPFFKWH NFSNLMKMFYKMYFSKN
15335	45703	A	15425	21	375	TFENTRFWDVQIPVPTGERRNE WALPPPAGSV PAGGWSRPLTP GRCD SQGRGRSRAAPLSRSP PPLRRSPTLPGEPHPAHRPLRVH PRHGPRPSHLACLNSQAPDASR LRASANQ
15336	45704	A	15426	155	340	



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15337	45705	A	15427	1	2658	MIINTIITTTTITITITIMSSPIT ITNITIIQHHHHHNDQRPSLGK CRGLYIRVRKVPGERATANSRC PINAQGIESCWNGVMALWLG NSTCSRLELTDSEDCQPADSP GDEDPKPWWDPPEAPLTGYF HPYGAAAFVPRHAGNFKDRREV PHQDTSFCSAQGFWILPSACKT GRVALTLTLIGAYQTLTEADV KGLTAARAASPGAKWRTQFPC PAGTCSSQAGNGQLEDCLPYPP GPSAPVGSLSRSSANGEFIIGRVI KAMNNSWHPECFRCDLCQEV ADIGFVKNAGRHLRCRPNRE KARGLGKYICQKCHAIIDEQPLI FKNDPYHPDHFNCAACGKILG VFLTDRKDLTADAQELKGELY CLPCHDKMGVPICGACRRPIEG RVVNAMEGKQWHVEHFVCAKC EKPFLGHRHYERKGLAYCETH YNQLFGDVCFHCNRVIEGDDE GDGFAHRYSPYDSCEVDQSPLE GQQLKSIRKPLAQSQPLPTPV MLHPGCKTQIREAPGSAALLESV RRRPRPGLVPEEESAAVEAV RHHHLQNFSLLETLNGQKLG GHFCDVTVCHEASLRAHRCGL AIGSPSFQDKLLGPSEIRVPSV VPVQTVRQLVELLYSGSLVVA QSEAPQVLMAASVLRIDSYRR MHADYRTRSSAPASTSAPALP TPVPPPLAPEQLRHRLRHLLAA
15338	45706	A	15428	708	892	
15339	45707	A	15429	2	713	
15340	45708	A	15430	212	1246	DLPLAVHGVQSDSGAQAVASR SGDESSIVCLKEESTVNMTRFCS LPLAVISVSTAKCQVKSFEII GRVIKAMNNSWHPECSAVTSA RKFWQILHLSRMLVDRKDLTA DAQELKGELYCLPCHDKMGVP ICGACRRPIEGRVVNAMEGKQW HVEREQYMDPGILSALIDPKYL LILSHRGLHMKSMKGFYFAKL YYEAKYDLAKKYICTYINVQE RDPKAHRFLGLLYELEENTEKA VECYRRSVELNPTQKDLVLKIA ELLCKNDVTDGRAKYWVERA AKLFPGPSAIYKLN/DGWVRG QMVPKPDDEGVQVRGRSGRPD AGWRLNRRSSVGGSAWRLRPQ

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15341	45709	A	15431	129	444	WGGPGRQPDGGRVPGRCGPRR PATWESPAACRPRQSRHHSFE *GGSRSRSGSHKRPCSPSPA VLRA RDQVVLHTSFEATEGDSSHEDR STPLARRCLCSHRSGEA
15342	45710	A	15432	1	2446	METSLMVQVCGGRDCNALLPG NLCSQPTQVPLEVDGDDGPG GLPLNAAAPPSSVPPVPPEALPP PACPSAPAPWRSIISRLFTGSPA AEAAHPPPGGALDFGALRTSSC LSQSHGHIPGGPGLGLGAVRVP VPSEEDPASLFTEVPAAEAPAT VQSVEFDVANDRLDRSFLEDM TPARDEKKVGAKAAQDSDTG RASRAPEQQIPHGGHWRGHSRS YERFRPPDMVSAGPGPSDGEAL GGNPVAVGFQDDVDLEDQPRGS PPPPAGVPVPSQDITLSSEEAEV ADPPKGPAPAPQCCEPETKWS SIPASKPQRGTAPMTAAASPPWP GGASVHTGLEKCSSTRPPAEIEP GKGEQASSESDPEGPIAAQML SFVMDDPDFESEASDTQCRAVR RVLPAQRAENAYGSAFQPGAL KPECRPTLKGPGVPVSKAGKK TEATSPRPTGGASPLAHGATVG AAWGLGMASWPIGSSLAPTRA RTREPRQLQRRVGSELPGDPCSG SGASCRQVCARGRATSVRLPAL ESLWPLSSDGSAAAREGLEGPR LRQAAAPGGPGPPLPLSRPPSP ARRMRGGAAYAGRGAAAPLE GRVRLGVGFLAETAVRAGAGA LAAADAPPGSRTPRARPLVAAG SGAAGGRCPVPSRRQREAPSPL GGAGVDLQLECLTSEKAGVGA ATGGVLEALARAIQKKEIEIQ

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15343	45711	A	15433	26	963	FMIWAGQNRKVKQDFVIQLRML TPVVPVPPQAAPNAQQPRAAASA PQTRVRAPRWPLGNVVVLGTE DAAGPSRPASEPPASPALPGPAL ELGLPNHPKQT/IRPRLAPRRSH PKDSCITIFKLSFLKNKIFNNSV GDQVNLDYKLISGTEYDILNFW NFRILAKTGCSKDGHRNPRSRP TQEEGSGKPKKSLVKERSGAQE DLVPVPPEEKLELSGTSMGPCCFS KTSYGPHIYILSYKGTATAG HRWPAAYAPLNCVPPPETTM PVSDLGSLPHWASRIATPPSMW LCCLAAALRVLAYSNSSAEYV SQS
15344	45712	A	15434	803	1305	RSKPCRSHNVFSWVAHSRPC CPWSGYSSRLCCLSCCITLGPY QLKNRQQRNGSYKSGNYLCV GNRLLFWVWIFQKGGRS/WLP RSDWVTSYKVMVSNDSHTWV TVKNGSGDMIFEGNSEKEIPVL NELPVPVMVARYIRINPQSWFDN GSICMRMEILGCPLPGWEH
15345	45713	A	15435	2	377	ARELLKAVWRPHKVA VMHCR GHQRASTLVGLGNSRADSEAR KAPSAPFRASVTAPLLPQAPDL VPTYSKKEENDFLQAKGGQVME EG*IRLPDGRVA AVVLAVHETT HRGQELLEKL GWYFYISH
15346	45714	A	15436	77	679	KMKTNQMGKLSKVVMENATIS EIRLINNRKDV EYQQEILQLEAV WKLHKVAVMHCKGHQRASTL VGLGNSRTDSESPKAASAPLRA SVTAPLLPQAPDLVPTYSKKEE DFLQVEGGQVMEEGCIRLLDG RVAVPQLLGAAILVAVHETTHL RS/ESSLGKLLGQLFSTISHFVSL CQNLTQRCVTCRQHNAHQGPA VPPGMQ

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15347	45715	A	15437	2	881	HARCTGIAARAGLLDPRHTGEA LAARSRIDLARRPHWPRGCGTG GGGGGCAGLGGAWLRGNDVA VPARALVTAAPASSMSPPIPA AARPVSSSIPAASPSPRCGLRAG PAELRCPRRLRQARAEEPPRAG PAPGRRRPTPGICAPLSPLRLA GGTAPSLPGVTRGSRVGRRLRP SLGGAGCRVGRKPRLLPPGRR CSTGLPPPAGTGAPAGVCWED GDPGHLEAAALLRRLGGQIRAL AGHRTAGWAQHGLSPREAVRP APAARGTLLRRSNSRRHLQNP ANFGGTAT
15348	45716	A	15438	3	502	GRRDSCLPVVVAPRACLHPRG QVPRLGSVGKMATPGMSWQQ HYYGSAAKFAPSATAQLAG HSMDSQEMHLKMSKKIAQLT KVYIALNTKNDHEHSAIQALKD AHEEEIQHILAETREKNLQYKS KVTEELDRLRRKIQVLESSLEDHI KMKQQUALTEFEAYKHH
15349	45717	A	15439	29	230	LQIDCKNKPAILRGPTDPLKEA DCYCRTWERPQILLPKWEGTR KPILVI*QNKAHQHPQITLLHQ
15350	45718	A	15440	73	335	FFWGGIEEPCFVILSGSVFWFLL JWVGASASPVVGDVFGRGGSPP PTSTVGAFITVLWGVSVWLKRV CGSSWDC*FVLAINLELKFTM
15351	45719	A	15441	373	513	
15352	45720	A	15442	1585	1649	KNSNIQHSFKITLVHQWFQTK KKFLIYLKKNSSGLVDP*MVHT TRLCADNPQYQPRARKSHS*VK GESTTLREHPMGQKNLNSLQP
15353	45721	B	15443	1	696	
15354	45722	B	15444	49	525	
15355	45723	A	15445	113	474	SIPYKNKEEEEGKGGEYYIKGT CHGTGKGSEQQPSALDLPDRAY PNEKEPEN*W*LI*QNKAL*HS PKNHTSSP/RNGSKPRKKSILNL KKNSGG*LLS*LGRHQKVKPN ARKSKNQYKK
15356	45724	A	15446	47	614	TGCPRCQKQNSTCIAAVKMEGFL SVFGDRSTGETIRSQNDVTITN DGATILKLLVEHPAAKVLCEL ADLQDKVEVDGTTSVVIAAEL LKNADELVKQKIHPTSVISGYR LACKEAVFYLTENLIVNTDELG RDCLINAAKTSMSSDIIGINGDF FAN/MVVDVAVLAIHARRGQ/P RYPVTLLY*SHGES

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15357	45725	B	15447	707	1826	
15358	45726	A	15448	108	397	
15359	45727	A	15449	1726	2464	SKAVQLEAGGLQLFCCKMAP DPNITDVFGRALTALHYAVYNEDT SMIEKLLSYGANIEECSEDEYPP LFLAVSQRKVKMVEFLKKKA NINAVDYLGRSALIHAVTLGEK DIVILLQHNIDVFSRDVYGKL AEDYASEAKNRVIFELIYEYER KKHEELSINSNPVSSQKQPAK ATSGKEDSISNIAIEIKDGQKSG TVSSQKQPAKDOTSDKNDVSN TATEIKDEQKSGTVSSQKQPAL KDOTSDKNDVSNATATEIKDEQ SGTSVFSETTGLEGYK
15360	45728	A	15450	2	675	
15361	45729	A	15451	1	467	DHSSSPAREQNWMEFDEL EVGFRRWVITNSSELKKHVL TQCKEAKNLEKRLGELLTRITSL KNINDLMELKNTARELHEAYTS INSWINQAEERLSEIEDQLNEIK REDKITEKMKNSTTVRVAAASM QSKLLQGVAAEEGPLRLTRSAF
15362	45730	A	15452	2	632	
15363	45731	B	15453	355	894	
15364	45732	B	15454	99	716	
15365	45733	A	15455	1	1140	
15366	45734	A	15456	1	1476	MEVNREKQLNELEVIGSEEQNL EEGLMIGGVAVRLVPDDIVIP GGVNATNGTEARDALRVKVA MSVTLLSGIIQYLLSALGWSYY TVDGVSQKNPRALGVTADQLH AIFTTMSDEQASFRGFVAIYLT EPLVRGFTTAAAVHVFTSMKL YLFVGKTKRYSGIFSVVYSTVA VLQNVKKNLNVCSLGVGLMVFG LLLGKKEFNRFKEKLPAPIPLE FFADHNSSPAREQKWMENEF EWTVEVSRFRWVITNSSELKEH LTQCKEAKNLEKRLLELLTRITS LEKNINDLMELKNTAQEFHEA YTSINS/RNQTEERVSEIEDQLN EI*CKDKIR/EKKRMKRNEQSLQ EIWDCVKRPNRLTGVPESDGE NGTKLENTLQDIIQENFHNLAR QANSQIQEIQRTPQRYSSRATP RHIIIRFTKVEMKEKMLRAARE KGRVTHKGNPIRLIADLSADTL QARRQWEPFINILKENFQTRISH
15367	45735	A	15457	1	1185	
15368	45736	A	15458	1	2367	

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15369	45737	A	15459	1	744	
15370	45738	B	15460	337	1515	
15371	45739	A	15461	1	1197	
15372	45740	A	15462	1	714	
15373	45741	A	15463	142	601	HQRTKVYKFTKMRKNQPKKPE NSK/TQNPPSPSKDHNSLPAREE NWMENEFDKLTEVGFRRVWIT NSSELKEHVLTCCKEAKNPDK RLEKLLTRIISLEKNINDLVELK NTA*ELLEAYTNINSQIDQVEEK I/S/SIEDQLNEIKLEDEIREKKKK
15374	45742	A	15464	153	474	OTKSNVNIKKQDVHTKTPSEG HQHQRPKADHNSLPAREQNWIE NEFDELTEVGFRRVWITNSSEL KEHVLTCCKEAKNLEKRLQEL LTRITSEKNINDLMELKNTA
15375	45743	A	15465	1	2172	
15376	45744	A	15466	1	1640	MKLMETLNQCINAGHEMTKAI AIAQFNDDSPARKITRRWRIG EADLVGVSSQAIRDAEKAGR LPHPDMEIRGRVEQRVGYTIEQI NHMRDVFGRTRLRAEDVFPPI GVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNPDQGT SMYHGWVVDLHIAEDTLLPF YLGEKDDVTYAIKPTCWPLDI IPSCALHRIETELMGKFDEGKL PTDPHMLRLAIETVAHDYDVI VIDSAPNLGIGITINVCAADVLI VPTPAELFDYTSALQFFDMLRD LLKNVDLKGFEFDHLPAGNC YVVRNEDCIGFSGFYNVISL GVYLVEQQKGWEDTHSKTPSK GHQHQRSKVDKSTKMRKNWS KNAENSKNQNALSPNDRNSSP ARAQNWMEKFDKLTVEVGR RQVITNTSELKEHILTQSKEAKN LDKRLQELLTRITSEKNINDL MELKNTARELREAFVFCVNCE AVSLITSLREDSHWLEDKSGHR M/RRHQE*KCEYFHPPHGLQF YQLPESDSSHDPWPHGGSFSL
15377	45745	B	15467	50	1603	

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15378	45746	A	15468	528	1413	QTERNSTSTSKTPSEGHQHQRPKVDKSTKMGRNQCKKA*NSK SQNACPPKDHSSLPAREQWTW MENEFDDELTEVGFRRWVITNSS KLKEIIVLTQCKEAKNLEKRLE ELLTRITNLEKNINDLMELKNT ARELREAYTSINSRIDQAKERM SEIVDQLNERNDRENGTKLENT LQDITQDNFPYLARQVNIQIET QRMPQRYYSRRVTPRHIIVRFA KVMEMKEKMLRAAREKDTSVK QKVNKDIQELNSALHQVDLIAI YRTLHPKSTEYTFSSAPHHTYS KTDHIVHSILCDGS
15379	45747	A	15469	368	679	SSQLNKAPSLFNPVSEEFCLWL LLLQKELLTRITNLEKNTNDLV DLKNTA*ELHEAHTSINS*IDQV EERISECEDHLTEIRHSEKMKTA LLK*DMQTRREKKK
15380	45748	A	15470	865	2055	QTERNSININKKDNKYAKTPSKG HQQQRPKVDKSTKMGRNQHK KA*KFKPKGMPSPPK/DHNCSP ARE/QNW/MENEFNEFDLTGA GFRRWVITNSSSELKEHVVTQCK EAKNLEKRL/QELLTRITNLEKN INDLMELKQDITQENFMKHTQ VSIAQADQGRKERVSEIEDPTL MDIKCEDKIREKK/IKKRNEQSL QEIWGYVVKRPNLRLLISVPESDG ENGK*ENILQDIIQENF/FPNL TRQANIQIETQRTLQRYPLRR ATPRHIIIRFTK VEMKEKMLRA AREKGRVTHGKPIRLTENLSA ETL*ARRE**PILNILEKRNFPQR ISYRAKLSFISK/GKREIKSFIDK QILRDFVTTRPALQELLKEAVN MERKNQYQPLQKHTKLKRPLT
15381	45749	A	15471	1	315	
15382	45750	A	15472	1	2775	
15383	45751	A	15473	1	1017	
15384	45752	B	15474	1	3105	

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15385	45753	A	15475	1	1115	MKWL LLLGLVASECIMYKVP LIRKKSRLRRLSERGLLKDFLK KHNLNPARKYFPQWEAPTLVD EQPLENYLDMYFGTIGTGA QDFTVVFDTGSSNLWVPSVYCS SLACTNHNRFNPEDSSTYQSTS ETVSIYGTGSMTGILGYDTVQ SGYHHGNHRLNLKGLCSSKRSS TTPPLYDLGQVAPPSGVS SSC DDQSGSVVIFGGIYSSYYTGGL NWWPVTVEGYWQITVDSITMN GEA\IACAEGCQA\VEPGTFFVT GP\TSPIA\NIQSDIEA\SEELDGD SVLICSAISS\LPDI\VFIT\NGVQY PVPPSA\YILQSEGCISGFQGM NLPTSEELWILGDVFHFASTLT VF\DRANNQVGLAPVA
15386	45754	A	15476	1	765	
15387	45755	A	15477	470	479	PRNPSSFLQVQVQHRFLQLFVP FHFVFFLASLYVMVTLTTWFR* DPCVSGMALNCSFLKIASSSGE YLRPTPSYLNQVVRVTMT
15388	45756	A	15478	1	896	CLPFGGPKPNPWDKDGCGQR PQPRHLPGPGTAAQRRQCPSE KSL\CRWPSLTATSCSLFYIL LHV GAS/CNLLPPAVKDSGKG VGQDTQVLSGSGAVYRVCA GT ATFHLLQAVLLVHLHSPSPRA QLHNSFWLLKLLFLLGLCAIAF CIPDEHLFPAWHYIGICGGAFAI LLQLVLITAFHNSWNKNCNEAS YLAEVFGPLWVKVYSYEFQKP SLCFCPCPETVEADKGQRGGA RPADQETPPAPPVQVQHLFLQL FCLPLRLLPWLTLCHGYPPYQLV QASAGCGCKPFAPYSL



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15389	45757	A	15479	1	1016	MERRGPGAATARGRARPGGGP SVGLLATGSSLNPSFHGVARI VFIRIARPRDGSFAYESVPWQQS ATQPAGLSVVTTVWGVGNAT QSQVLGNPMGPAGSPSGSSMM PGVAGGSSALTSPQCLGQQAFA EGGANKGYVQQGVYSRGGYP GAPGFTTG YAGGPGGLGLPSH AARPTDFTQAAAAA VAAAA ATATATAT/GHRGCSPGEAEPG AEPD GAGAGQSFNSQFLQHG GPRGPSVPAGMNPTGIGGVMG PSGLSPLAMNPTRAAGMTPLY AGQRLPQHGYPPGQAQPLPRQ GVKRTYSEVYPGQQYLQAYP VHSGLSQFPTWQETPRHP
15390	45758	C	15480	1	585	
15391	45759	B	15481	1	885	
15392	45760	A	15482	3	440	GPWPRPVAYLSKQLYRVSKGW PPGLRALAEMALLAQEADKLT LRQNPNI/IGPHAVVTLMTTKG HH*FTNARLTYVKIPT*PLKF/G NTLNPITLLPVSESPVEHNCVD VLDSVYSSRPNLRDHP*TSVDC ERYVDRSSFTNRCKVTR
15393	45761	A	15483	3	368	
15394	45762	C	15484	109	276	
15395	45763	A	15485	1	1710	
15396	45764	A	15486	221	784	QNSLRSMCQKEKKMAAGVLT HTC/GPWPRPVAYLSKQLDRIS KGWPPGLRALAATALLAQEAD KLTLGKT*I*RPPHAVVTLMNT KGHHWLTNARLTKYQSLCEN PHITTEVCNTLNPTLLLVSESL VEHNCVEVLDSVYSSRLNLRD HP*TSVDW*LHVDGSSFTNPCK VTLKKMTSAAPVTPRS
15397	45765	B	15487	509	661	

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15398	45766	A	15488	1370	2243	LGKLRLESCGLVAAVRPHSGGL AMPLPNATRPASGRSED/AELK LALHGHRSLSLQGRKHRGVH DNSDIPQAALVGGTTMIIHGVH PDKETSLVDAYEKCRGLADPK VCCDYALHVIGITWWAPKVKA EMETLVREKGVNSFQMFMTYK DLYMLRDSELYQVLHACKDIG AIARVHAENGELVAEGAKEAL DLGITGPEGIEISRPELEAEATH RVITIANRTHCPIYLVNVSSISA GDVIAAAKMQGKVVLAETTTA HATLTGLHYHHQDWSHAAAY VTVPLRLGIPPH
15399	45767	A	15489	307	600	VSRRASSGSPVPLGSLHLQHS PA/PSAAPKPRSPPARLSRPHLR GESAAPSLSPGPASLAAAAA RVPAQSPAPSTTPAPRTTLAPR VPHRLAPAP
15400	45768	A	15490	3	222	
15401	45769	B	15491	1	1131	
15402	45770	A	15492	136	201	
15403	45771	A	15493	3	556	ELPRRLVCSKLADPGRLTDA CARPGMSRYLLPLSALGTVAG AAVLLKDYVTGGACPSKATIPG KTVIVTGANTGIGKQTALELAR RGGNIILACRDMEKCEAAK/ID IRGETLNHHVNARHLDSLKLS IREFAAKIIIEEERV DILINNAGV MRCPHWTTEDGFEMQFVGNHL GHFLTTWC
15404	45772	A	15494	11	559	
15405	45773	A	15495	1	312	MAPAADREGYWGPTTSLDW CEENYSVTWYIAEF/SWLMGSGF LPTPSSLRDLTASRWVRSLLPSPR SPAGRQPGPAEELPKASPCPWG KLSLRPFASFSSSGPS

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15406	45774	A	15496	2	1605	WQLPHPPAAPSAARQILRACQLS SVTAVAQSCLYGKQLC/GLTTG NIAGAGLLFFGGGIGGTILYAK WASHFRERVEKTIPYSDKLFV VLGSAPYNVPLPKKSTQSGPLK ISSVSEVTKEFKQPASQLQKQK GDTPASATAGDTVLVPGVQHE ESLKTDPAPIDEKGKPTALSEEA SSSSIRERPCEEIAACLAQEEKQ EQVKTESLAKSFEDALRQTANV TLQAIAAQNTVVQAVNAHSNII KAAMDNSEIEGKKKSAKWHTV QGALKEHRKAVDEAANALLKA KEEVQAAQFESKLVSQYHEL GQAQDDFKRQLDSITPEVLPGW KGMSVSDPADKISTDDLNSLIA RAHRHIDQLNRELAEQKATEK QHITLAEKQTLLEEKVQEELK YEFQNLSEKLSEQLQFHHL SEQVHNFTLDINTAYARLGIE HAVQSHAVAEERKAYQLW LSVEALKYSMTSSAEMPAVPL GSAVEAIKANCSDNEFTKALAT AIPPESLTHGVSEETLRVRFYA VQKLARRVAMID

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15407	45775	A	15497	89	2490	PKCCFFCLLSGETAAQSCLCG KVVLRLPLRCRRYSTSGSSGLT TGKIAGAGLLFVGGGIGGTILY AKWDSHFRESVEKTIPYSDKLF EMVLGPAAYNVPLPKKSIQSGP L*ISSVSEVMKESNRPAQQLQK QK/GDTPASATAPTEAAQIISAA GDTLSVPAPAVQPEESLKT DHP EIGEKGPTPALSEEASSSIRERP PEEV AARLAQQEKQEQVKIESL AKSLEDALRQTASVTLQIAIAA NAAVQAVNAHSNILKAAMDNS EIAGEKKSQAQWRTVEGALKER RKAVDEAADALLKAK*LLMDF NKEELEKMKSVIENAKKKEVA GAKPHITAAEGKLHNMIVDLD NVVKKVQAAQSEAKVVSQYH ELVVQARDDFKRELD SITPEVL PGWKGMVSVDLADKLSTDDL N SLIAHAHRRIDQLNRELAEQKA TEKHITLAL/EKQKL/EKRAF/ DSAVAKAFNRHRRKLKYRA*TG QKR*KEVRDAME/NEMRTQLR RQAAAHTDHLRDVLRVQEQEL KSEFEQNLSEKLSEQLQFRRLS QEQVDNFTLDINTAYARLRGIE QAVQSHAVAEERARKAHQLW LSVEALKYSMTSSAETTSIPL GSAV/EATKANCSDNFTQALT AATPESLTRGVVTVKRPLGAR FYAVQKLARRVAMIDETRNSL YQYFLSYLQSLLLFPFQQLKPPP
15408	45776	A	15498	1	1212	MPKKRQALVEFEDVLGACNAV NYAADNQIYIAGHPAFVNYSTS QKISRPGDSDSRVNSVLLFTI LNPIYSITTPTRLNVFKNDQDT WDYTNPNLSGGQDGPSPNKR QRQPPLLDGHPAEYGGPHGGY HSHYHDEGYGPPPPHYEGRRM GPPVGEYGPADSPVIMVYGL DQSKMNCDRVFN VFCLYGNVE KVKISLKKQSPGGRPMGEEWL/ DGYAVDRAITHLNNFMFGQK LNV/CVGAQAREGSRGTGERK GGEWGPAEEHSEAEVLTHTM GCGSVSKQPAIMPQSYGLEDG SCSYKDFSESRRNRFTPEQAA KNRIQHPNSVLHFFNAPLEVTE ENFFEICDELGVKRPSSVKVFSG KSERSSSGLLEWESKSDALET LFLNHYQMKNP SINLVT

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15409	45777	A	15499	1	645	
15410	45778	A	15500	3	677	SPPNPRAPYLFPASLQNPNANWS PHFQYLPLSQPRSVLTAFRQQA QPRISMPQAQTPFRPQMERLDQ NIRRSNQPHSLKPKLIQSKALT LFNSVKAEEKDEEAEEKFEVTR VVHIRGLIDGVVEADIVEALQE FGLISYVMVMSKKRQALVEFE DVLACNAVNYTADNQIHIAH HPAFVNYSTQKISRPGNSDDIR SVNSVLLFTILNPIYSITTDVLYT
15411	45779	A	15501	2	1712	DEQRRRSGAMVKMAAAGGGG GGGRYYGGGSEGGRAPKRLKT DNAGDQHGSGGGGGGGAGAA GGGGGGENYDDPHKTPASPVV HIRGLIDGVVEADLVEALQEFQ PISYVVVMPKKRQSLV*FEDVL GAGNAVNYAADNQIYIAGHPA FVNYSTQKISRPGSDSDSRVS NSVLLFTILNPIYSITTDVLYT CNPCGPVQRIVIFRKNGVQAMV EFDSVQSAQRAKASLNGADIYS GCCTLKIEYAKPTRLNVFNQNDQ DTWDYTNPNLSSGQDGPSSNP KRQRQPPLLDGHPAEYGGPHG GYHSHYHDEGYGPPPHYEGR RMGPPVGGHRRGPSRYGPQYG HPPPPPPPEYGPADSPVLMV YGLDQSKMNGDRVFNVFCLYG NVEKVKFMKSKPGAAMVEMA DGYAVDRAITHLNNFMFGQK LNVCSVKQPAIMPQSYGLED GSCSYKDFSESNNRFSPEQA AKNRHQHPSNVLHFFNAPLEV EENFFEICDELGVKRPSSVKVFS GKSERSSSGLLEWESKSDALET LGFLNHYQMKNPNGPYPYTLK
15412	45780	A	15502	1	528	NHQIRNDFITSPGVKADSRTSP PQQPASSFDITEAAVSFAKDSL GGVAAAISKMAVAPIERVK/RV PKEHGVLSWCGNLASVIRYFP TQALNFTFKDKYKQIFLDGVDK RSQFWRYFAGNLASGGATGAT SLCFYYPPLDFAHTRVAADVKG AGAERELRGFGDCLVKIYKSDG IK
15413	45781	A	15503	1	1452	

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15414	45782	A	15504	2	991	RSAGVKGASRSPVLQQSASSF NMTDAAVSFAKDFLAGGVAA AISKTA VAPIERVKLL/LQVQ/H ASKQIAADKQYKGIIIGCVVRIP KEQGVLSFWRGNLANVIRYFPT QALNFAFKDKYKQIFLGGVDK RTQFWRYFARNLASGGAAGA TSLCFVYPLDFARTLAAADV GK AGAEREFRGLGDCLVKIYKSDG IKGLYQGFNVSVQGIIYRAAYF GIY/DTAG/MLPDPK/NTHIV/S WMIAQTVHCCCPG*LPYPFDT RS/VRNE*MQSGRK/GT/DIMY TGTLDCWRKIARDEGGKAFFK GAWSNVLRGMGGAF/VLVLYE *KSKKYYT
15415	45783	A	15505	1	613	
15416	45784	A	15506	1	1695	
15417	45785	A	15507	131	723	LLEGKLTNRKDIHTKNPSVRH/ RSSKTKERVSA MEDEINEMKRE EKFREKRVRKNEQSLQEIWDYL KRPNLRLIGVPESDGENGTKE NTLQDIIQENFPNLARQANI/Q EIQRMPQRYSLRRATPRHII VRF TKVEMKEKMLRAAREKGRVT HKGKPIRLT/ADLSAETLQARRE WGPIFNILKEKNFQPRISYPAKL
15418	45786	A	15508	1	3156	
15419	45787	A	15509	1	879	
15420	45788	A	15510	1	804	
15421	45789	B	15511	1	1230	
15422	45790	A	15512	2	827	
15423	45791	A	15513	1	1011	
15424	45792	A	15514	1	1722	
15425	45793	B	15515	1	780	
15426	45794	A	15516	1	2712	
15427	45795	B	15517	1	855	

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15428	45796	A	15518	3	1263	GRTIQTGKGEVNFENFEKNLEECITRITNTEKCLKELMELKTKAREVREECSRSLRSCDQLEERVASAMEDEMNMKQEGKFREKRIKRNESQSLQEIWDYVKRPNRLRLIGVPESDVNGTKLENTLQDIIQENFNNLARQANVQIQERQRTQRYSSRRATPRHIIVRFTKVEMKEKMGLLVPNWTNHSPLFRALFDYKGFRCRFGITHTGTGSPAGANQRGPLAATLSGPGGEGQSAVARLTGLIGVPESDVKEKTKLETTLQDIIQENFPILARQANVQIQEIQRTPQRYSSRRATPRHIIVRFTKVEMKMKMLRAAREKGRVTLKGKPIRLTADLSAETLQARREWGPIFNILKEKNFQPRISYPAKLSFISEGEIKSFTDKQMLRDFVTTTRPALKELLKEALNMERNNRYQLQNHAK
15429	45797	A	15519	1	1137	
15430	45798	A	15520	1	1578	
15431	45799	A	15521	1	1656	
15432	45800	A	15522	1	1120	
15433	45801	B	15523	1	1541	
15434	45802	B	15524	1	1632	
15435	45803	C	15525	53	352	
15436	45804	A	15526	1	973	MGGKQNRKTGNSKMQSASPPPKERSSSPATEQSWMENDFDELREEGFRRSNYSELREDIQTGKKEVENFEKNLEECITRITNTEKCLKELMELKTKARELQRYSAMADEMNMKREGKFREKRIKRNESLQEIWDYVKRPNRLRLIGVPESDGNGTKLENTLQDIIQENFNNLARQANVQIQEIQRTPQRYSSRRATPRHIIVRFTKVEMKEKMLRAAREKGRVTLKGKPIRLTVDLSAETLQARREWGPIFNILKEKNFQPRISYPAKLSFISEGEIKYFTDKQMLRDFVTTTRPALQELLKEALNMERNNRYQLQNHAKM
15437	45805	A	15527	1	2896	
15438	45806	B	15528	50	658	
15439	45807	A	15529	1065	1260	RSHALALDSAGSSSPESH*RASIPHTALGQNAGSWAGTAHSHHGPFWSDPHRPQVVPVRTCCP
15440	45808	A	15530	96	219	EFSTKPRLSGP*SSWEMLEIPLAPDTTIDLKLLYSRDRF

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15441	45809	A	15531	5459	6324	LLANVSQLLADISQLLANFTQL FSHFSQLLTYLSKLFTHLPQLLT HFPKLLTHQPELFSNQSQLHPNI TRYSPSPSYSPSPSPNYTPTSPN YSPTSPSYSPSPSPSY/SDLTKLL PFQPTIHTVSNLYPKLTQLQPQ FAQLQPNLTQV/PPTSPSPSPSP EYTPTSPKYSPTSPKYSPTSPKY SPTSPTYSPTTPKYSPSTPYSIQ PLQSTPQPLPSTHLLAPLTRPLP PSTRPPAPPTRPPPKAQPTLPLP LVTRPPAPPTVSQARLSARMTV TRRTEGTWGAAAG
15442	45810	A	15532	13	941	SVVLRPLVVAAATATTPVAA AAANTAKKTATVMVGEMVA GERGVLQMGHDITRFFYSNIQT VINNWLLIEGHTIGIDSIADSK TYQDIQNTIKKAKQDVIETFEN QVPRILNDARDKTGSSAQKSL EYNNFKSMVVSAGAKGSKINISQ GGGSGGGRGGPPISMWLLALC LVGLAGAQRRGGGPGGGAPG GPGGLGLSLGEERFPVNTAYG RVRGVRRRELNNEILGPVVQFLG VPYATPPLGARRFQPEAPASW PGVRNATTLPPACQNLHGALP AIMLPVWFTDNLEAAATYGGC FRVPKKA
15443	45811	A	15533	207	696	TNLQEKNKQPHQKVGRYKQT LLKRRHLCSQQAHEKMLIITGH QRNANQHNHEIPSHTS*NGDH* KVRKQQMLERMWRNRNFTL WVG*TSSTIVEDSMAIPQGR TRNTI*LSHPITGYIPKGL*IMLL *RHMHTYAYCGSIHNSKDLEPT QRSINDRLD
15444	45812	A	15534	1	307	
15445	45813	A	15535	1	381	LPPPHDRLWCVMFPTLCPSVLI VQFPMPSENMRCLVFPCNSLL RMMVSSFIHVPTKDMNSGIL*S RPADIELFSINLVNKKIFLKGF GDPLSLQRQLRNIVFSMPCCFPS FLLPWVFSQLSVKPH
15446	45814	A	15536	134	278	DPAFLAPSPV/LMKQAPQATSG LMEPPGPSTPIVQRPRIILVIDD AHTD
15447	45815	B	15537	1	840	
15448	45816	C	15538	1	891	



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15449	45817	A	15539	1	3102	MYSHVITVCRHVKNKDILLNR QPTLHRPSIQAHRRARILPEEKVL RLHYANCKAYNADFDDGDEM AHFPQSELGRAEAYVLACTDQ QYLVPKDGQPLAGLIQDHMVS GASMTTRGCFFTREHYMELVY RGLTDKVGRVKLLSPSILKPFPL WTGKQHINRTKDKNHMIISIDA EKAFDKIQQPFMLKTLNKLGD GTYLKIIIRAIYDKPTASIIINGQK LEAFPLKTGTRQGCPLSPLFNI VLEVLARAIROEK
15450	45818	A	15540	1	779	IPMKDHDAIKLFIQIPRNLDK DLKPLFEFGKIYELTVLKDRFT GMHKGCAFLTYCERESALKAQ SALHEQKTLPGMNRPIQVKPAD SESREGDKKLFVGMNKQQSE DDVRR/LFEAFGNIEECTILRGP ERQTAKGCAFVKYSSHAEAAAG RPSTRLHGSQTMPGAFAVPVWV GQVSADTDKERTMR/RMQQMA GQMGMFNPMAIPFGAYGAYA QALMQQAALMASVAQGGYL NPMAAFAAAMQQAALNM NGLAA
15451	45819	A	15541	1	1413	MEYYAAIKKDEFISFVGTWMK LETIILSKLSQMOKTKHRIFSLIV LCDITDILKEFTVAEAGGFALNE IMKEICKSRFSKVSLSHWKMW HSTASLGYHRVNVNTNPDPLNLC LGHCWLGRLDTGQKQACGGP GVCPGMFRACGNGAPCKEAP SVTEASSPDGVLCLGSHVPITP APLSSAQMVCHMVEDRRTVEL ILGATHNLFFSTPLTWSLRAIP GNCVLFLLKDYVTEPVRQSILHI AGPTFKQTPNLPLKFPKATKA HGPNNVYQNDSTCEPTAQVSH WSSVSTLIASPVPGEDRKLFLV GMLNKQSQEDDVRR/LFEAFGN IEECTILRGPDGNSKARPLASSQ GAPSVKYSSHAEAAQAINALH GSQTMPLMQQAALMASVAQ GGYLNMAAFAAAMQQAAL LNPNGLAAAPMTPTQANGQP AAEENFANGIHPYPAQSPTAAD PLQQAAYAGVQYAGR

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15452	45820	A	15542	254	883	DLRKDSPWEHRQCCKREPGNS APPAPHSWGFAVFNPRAGDVR QLCKRADTRTPSPRAPFGSAGA CRGCGRAGARSLASPKARTCIS SARRRAGGPLQLGAGSGQAKR PDR*TRREGANA*KTLHL/HSSL APSPGGVLAGFQEPGRPVAC CAATAAGGIRAGERR/PAAAAA AAPWAQKLRLRLQRRGPPGC R**MVSFPRLFSGTSR
15453	45821	A	15543	1	768	MCDFGKSTSLPASPTSSANGR DNSTYRLKEQGGFMHSVASRD SCAESARYTDAHYAKSGYGAY TPSSYGANLAASLLEKEKLGFK PVPTSSFLTRPRTYGPFSSLLDYD RGRPLLRPDITGGGKRAESQTR GTERPLGSGLSGGSGFPYGVTN NCLSYLPINAYDQGVTLTQKLD SQSDLARDFSSLRTSDSYRIDPR NLGRSPMLARTRKELCTLQGL YQTASCPYLVLDYLENYGRKG SASQVPSQAPPSRVP

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15454	45822	A	15544	85	2249	SAEAMSGDGA TEQAAEYVPEK VKKA EKKLEENPYDLDAWSILI REAQNQPIDKARKTYERLVAQF PSSGRFWKLYIEAEIKAKNYDK GEKLFQRCLMKVLHIDLWKCY LSYVRETKGKLP SYKGKMAQ AYDFALDKIGMEIMSYQI WVD YINFLKGV EAVG SYAENQRITA VRRVYQRCGVNPMINIEQLWR DYNKYEEGINIH LAKKMIEDRS RDYMNARRVAKEYETVMKGL DRNAPSVPQNTQOE AQQVDM WKKYIQWEKSNPLRTEDQTLIT KRVMFA YEQCLLV LGHHPDIW YEA AQYLEQSSKLLAEKGMN NAKLFSDEAANIYERAISTLLK KNMLLYFA YADYEESRMKYEK VHSIYNRLLAIEDIDPTLVYIQY MKFARRAEGIKSGRMIFKKARE DTRTRHHVYVTAALMEYYCSK DKSVAFKIFELGLKKYGDIP EY VLAYIDYLSHLNEDNNTRVLF E RVLTSGSLPPEKSGEIWARFLAF ESNIGDLASILKVEKRRFTAFKE EYEGKETALLVD RYKFMDLYP CSASEL KALGYKDVSRAKLAAI JPDVPVAPSIVPVLKDEVD RKP E YPKPD TQQMIPFQPRHLAPPGL HPVPGGVFPVPPAAVVL MKLLP PPICFQGPVFQVDELMEIFRRCK JPNTEVEAVRITTGAP ELAVEG NGPVESNAVLTKA VCRPNEDS
15455	45823	A	15545	12	427	SAEAMSGDGA TEQAAEYVPEK VKKA EKKLEENPYDLDAWSIL IREAQV**YRITFPSLWVQSHYL VLPVNNIFIILTL*MLFIGFQF*N QPIDKARKTYERLVAQFPSSGR FWKLYIEAEVTLFYFFLYQYCS IHL
15456	45824	A	15546	150	469	SAEAMSGDGA TEQAAEYVPEK VKKA EKELEENPYDLDAWSILI REAQNQPIDKARKTYERLVAQF PSSGRFWKLYIEAEVTLFYFIFS YISIAAFTVVIENKLG T
15457	45825	A	15547	1	834	
15458	45826	A	15548	443	732	SFMRWQKGQLPQLCLHRESHC SPYPQPSFLGMEPADIHETTFN SIMKCDVDIHKGLYANAVLSSG TTMYPGIANRMQKEITALAPS MMKKI IAPA

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15459	45827	A	15549	1	1214	MEEIEIALVIDNGSGMCKAGF AGDDAPRAVFPISVGRPRHQGV MVGMMQKDSYVVGDEAQSKRG ILTLKYPIEHGIVTNWDDMEKI WHHTFYNELRVAPEEHPVLLTE APLNPKANREKMTQIMFETNT PAMYVAIQAVLSLYASGRTTGI VMDSGGDVHTHTVPIYEGYALP HAILRLDLAGRDLTDYLMKILT ERGYSFTTTAEREIVRDIKEKLC YVALDFEQEMATAAASSSSLEK SYELPDSRSTSNWQLSGFRLPL RHSFQPSFLGMESCGMHETTF NSIMKCDVDIRKDLVANTVLS GRTPPCTLGADRMQKEITALA PSTMKIKIIPPERKYSVWIGGF HPWAWLSHLSKMWVQQARS MTESGPLHSSTANGFLGGLLTL VAFTPLWTKP
15460	45828	A	15550	1	2355	MKQITFAPRNLHLLTNTNTWTPD SQWL VDMRTSGASFTGETIER VNIPTGYVEKPNKQCRHSVTRY GHGGHSDHTPSLTATVATQIT PRHSGHSGHCDRNLSLATATA ATLITPHLLWPRWPLGSHSVT WCGHGGHSDHTPSPTTATAVT RITSRHPLRPQQSLGSHPVTHYS HGSHSDCIPVTRYAHGGHSDHT PSLAMATAATQMALCHSLWPR QPLGYLVNKIRRKRCTDGVSPS GKAPVFDTGIPWFESRYP SHLL RVSGSPPGYWGIAKRHQILNVS NMFQKFTNLLGYRQAVRHRI LIPAFRGSNPRTPANLFKTLTIS NMRALENDFFNSPPRKT VQFG GTVTEVLLKYKTAIEKRLEKLA VDPHRDRAQMLKVENVQQA W QQWINKLPARREDEDVKEIR WMIEELRVSYFAQQLGKNSRA ESMLWSFHKAIEAARTNIIQA QTRVEAAQATERRIAADIDDSE LKAPRDGRVQYRVAKPGEVLA AGGRVLNMVDLSDVYMTFFLP TEQAGTLKLGGEARLILDAAPD LRIPATISFVASVAQFTPKTVET SDERLKL MFRVKARIPPELLQ HLEYVKTGLPGVAWSFLYSINQ TICLRDLSIEAKLQALEATCKSL EEKLDLVNTKQHSPIQVPMVA GSPLRTTQMCKNVR/CVNP*AT VVPPVPVQPTTQQYQGLDAGA

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15461	45829	A	15551	1	956	MSSGRRDALARGLNSGDGAP HLGEHRQLEDVGGVTVTVTWT GRLQAAGCWTRSVSTAAAGR REPSTRDGAALSTEPPDPPERLG HRGSRAGLTALGHVTRGSSQ RGGRPPEWEHWLENGTRRTTEL VDGVSYESWRRRRCRGQLESR LVLENHVATDEDEPALKCQRL EINCQDPSIKSFLYSINQITICLRL DSIEAKLQALEATCKSLEEKLD LVTNKQHSPIQVPMVAGSPLRT TQMCNKVR/CAMHWLCVSCIF TCLPGWRPAAPDQGPAAISLCS LPSSSQGHREPLALGLPSALPPA HRQLRGSA TVPIPP
15462	45830	B	15552	161	925	
15463	45831	A	15553	31	856	GGFLHHASFFVGRGRTLLMYFS LLGATPKPEPEPEQVIKNYTEEL KVPPDEDICMEKLSAASGYS DVTDSKAVGPLAVGCLTKCSH AFHLLCLLAMYCNNGKGEHP NPGKPF TARGFPA SATFTQTPA GPQELVPYTPQITAWDLEGKVT ATTFSLQPRCVFDGLASTNDT VWLVAFAFNASRGFQNPETLA DIPASQQLLTDGHYMTLPVSPD QLPCDDPMAGSGGAPVLRVGH DHGCHQPPFCNAPLPGPGPYR WVVP TGALGLGLCLG
15464	45832	A	15554	827	1371	GSSAGEASSLRRLSPSQISRPL LPAGEKVLVVWIEDQTSNHPL SQQSKT/TLFNSMKAERGKEVT EEKLEARRGW/MRFKERSCFPN VKVQGEAANADIEAVACYPEY LAKITDEGGYTEQQIFSVDETA LYWKKMPSTRFLARRKNCHSH PSFSSQHLVQSAAINIKAKSSTS KKIMTP
15465	45833	A	15555	799	906	FLNKLAFALRCGLALNSFLRKI QEPSLGSKSGSL
15466	45834	A	15556	143	560	

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15467	45835	A	15557	1059	1940	QQMQQEMRRKSKWMAMLGK WETYQNS/TKGHLMKRVYKGI PMNVRAEVWSVLLNIEIKAK NPRQYRVMKEKGKRSSEIHQI DLAVSQTLRNHMFRRDRYGTK QQELFYLLAYSXYPVVGVCYR DLSHIAALFLI.YLPEEDTFWAL VQLLASERHSCRVGEQLPLGLH AARPGDGHGPGPHLPVVASLL GAFRTSLLTPKEGTDPPPKS DAFHHPQKQASHPPRGCPCLPG ATPSGSDSVQLALRNLRVLLPF SCSGSSCPWYPRKEALHPGGLE EQRLQLPLMGLVTG
15468	45836	A	15558	123	448	ALAAAVYPVSHSERTGEEAKKIC SVR*LLRSAQEEI/FLRGKNSRT GVL*KLQRK*RYQRALGLAM LSEWTISPKGPVSTGITKPLMTA SRVTVPRMTMSALLDFIHGA
15469	45837	A	15559	1	6387	
15470	45838	A	15560	52	3218	
15471	45839	A	15561	3602	4015	GSVESPLGQKTPRTSSASPCWPS TNLYRMELEYGPHVTSQVVK STRCAPIRWSAAPSILCEVRVPV TMWTCLPLPATGRLSMW*IW RQWPCVLTSAATQS*LTRCGGGT RAVSLAPQSHL*VCPAQSSWTS IILWT
15472	45840	A	15562	932	1316	RVQDIPAKRGIPQFRPKIGIGQ SYKQHYPARPWNVLAQKVVV FEDQDALLPCLLTDPVLEAGVS LVRVVRGRPLMRHTNYSFSPWH GFTIHRAKFIQSQDYQCSALMG GRKVMISIRLKVQKAVNRA
15473	45841	A	15563	1	263	
15474	45842	A	15564	66	185	
15475	45843	A	15565	1	4217	MRLAEERAAALAAENADGEPGA DRRLRLLLGTYVAMSLRPAAGA WERCAGSAEAEQLLQAFGRD AAEGPRPLL.VVRGPRGLAIRP GLEVGPEAGLAGAKALFFLRGT PEPPGPDSEFRGAVVCGDLPAAP LEHLAALFSEVVLPLVLANEKNR LNWPHMICEDVRRHAHSLQCD LSVILEQVKGKTLPLPAGSEK MEFADSKSETVLDSIDKSVIYAI ESAVIKWSYQVQVVLKRESSQP LLQGENPTPKVELEF

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15476	45844	A	15566	26	494	RPGCGEVLGNAELWGQECQL HYSPVPSPWENSSGPRFSISKTG SLIPPLNDICQNQKPKIILSHPA RCLGLLDHFPQQWERRQAQNR AETG*GQSAQGGTFRQRPLSV SGNCRVPPRATVSRK/PRPAPAY ALSLSKSPRRRPPRTGPAAPPGLVP
15477	45845	A	15567	1	1242	
15478	45846	A	15568	114	1219	VDLPPGAPVRQSGSHGSVLRDH KTEGEARVPLHQRVVGKAGGR GATPGPHVHEDPVTICCGHSFC RP/C/ICLSWEEAQSPANCRA EPSQKKDFKTNILLKNLVTIAR KASLWQFLSSEKQICGTHRQTK KMFCDMDKSLCLLCSNSQEH GAHKHYPIEEAAEEHREKLLKQ MRILWKKIQENQRDLYEERT AFLWRKRTLRLKGMTSGAQGT SQKVALGLLQPLCHTVRAQS NSARVHKQRGGDAVSSGAGIP DPKAQRFPATLRSQAFTCTAGR RWGSGETVLHPLQRAGVRGAV AELHRQLLLSSAAAFEECEGL CTSGPHITQGPDHQELYLSHEG VWTLFTCTGDRWKVLGSGVPCP

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15479	45847	A	15569	1	2694	MRMAATAWAGLQGPPPLTLCP AVRTGLYCRDQAHAEATDVV LLAPFCQPKTRSHGTCPPTERDP RGEGSTYVPRVDGIQGWGTR ALTGWTDRLLCQACQTLPPR HWFLPGARGWLGGSPCAHQGE SLPSQSPILLRVESVKSRMLRR RAQEEDSTVLIDVSPPEAEKRG SYGSTAHASEPGGQAAAAACRA GSPAKPRIADFLVWEEDLKLD RQQDSAAARDTDMHRTWRETF LDNLRAAGLCVDQDDVDQGN TTVHYALLSASWAVLCYYAED LRLKLPLQDYPTPTPTGRAC/ CAWLGIPIVLLVVDVPPPEYY SCRFRVKNLPRFLGSDNQDTFF TSTKRHQLFEILAKTPYGHEKK NLLGIHQLLAEGVLSAFLHD GPFKTPPEGPOAPRLNQRQVLF QHWARWGKWNKYQPLDHVR RYFGEKVALYFAWLGFYTGWL LPAAVVGTLVFLVGCFLVFSDI PTQELCGSKDSFEMCPLCLDCP FWLLSSACALAQVREEAGRLF DHGGTVFFSLFMALWAVLLE YWKRSATLAYRWDCSDYED TEERPRQFAASAPMTAPNPITG EDEPYFPERSRARRMLAGSVVI VVMVAVVVMCLVSIILYRAIM AIVVSRSGNTLLAAWASRIASL TGSVNLVFIILSKIYVSLAHV LTRWEMHRTQKFEDAFTLKV
15480	45848	A	15570	1	924	MISQIFENYFSGKSSATSGWA RAQRDRFVAGSARPAALLSGRL APPALGSERLSTRASSCGGLPR ATPRGRAPPAIRIIPVSTAQR LRSAAARQLLAGSSARGRDAL GKASWAPESVLEVLARAVRQE KEIKGILLGKEVKLSLFAQDMI VYLENPIISAQNLKLMNSFSK VSGYKISVQKSHAFVYTNNRQS ESQIMSELPFTVATKRIKYLGIQ LTRDVKDLFKENYKPLLNEIQE DTNKWKNIPCSWVGRINIVKM AILPKVIYRFNAIPIKLPMTVFTE LEKTKFIWNQKRAHIAKTIL
15481	45849	A	15571	1	825	
15482	45850	A	15572	1	1488	



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15483	45851	A	15573	1	1476	MPIKVDWIKSRTHTPRDTMSP KRGINISIQEYRNTPDASILSEL LERDINTQVYTYEQEHTNKN GHQAIDKQNKGHIRRESDRGEY YPLDCRPTGSLTDKGWGMMLC GMMTAGKPTPILTLFDVGLPG GTAINKSSVIRVRNREEGNVEK WGERQVDQDAMVRVRCGIR NNVEAGLKYPGTMKVLSVF YTTQCCRRYLSVLCFAGLARAS VPFNEFDQMSLDEKLFSLHPL GSSSSPPKSLHCLLEHQFTML GFSDLGAQLASPSGSHTRAAGV AACQPAPTLTWLSPPVARGLG TLEQGVVLVGEARAAQEPMEW VGGSCMVGCRSRAALPRGKAAK AWREIQRASAGGAPVSPWSG GAPSRACPPSASSVRFLCAARR LACNTYSPVLYCVRNWWILGL TDFNNEATDPRDFLANVPQGL AAVAIGTCDGNVYSAGDRDYR FALESILKACTLALEEVGP VQDKIGADP/TGLPF
15484	45852	A	15574	140	448	GFLGACAGREFKMAP*SSLG *KLSVSPCPGLLISAEGPEAVFSI V*NARVRGFILEVSETKNPPID TISTKHASLMSDSYREKKLV VYPHSSTPSFQ
15485	45853	A	15575	1	1001	MEAPQGALEQDGPVLSQQRH RKKPFTATPIDPSYHRSHALS VIIGYCVPPSHAAEMAAYGWT MGKSKLMAGQWITQSQVFCDS STDGPRQHKQAQTALTQLSQSQ RSTNNSTVSHRQQWVNCRLR VKCQRLRAHKELLVPQRWLWR QGRCPVTTSLVAVSETAGAGA AALALSRCLCLQVSASARPF SRTLSPQPKCWAMAASHQPIK ILKNKTSRTSSMVALSEQPCRT VHEELSKKCQKWDEMNILSTY HPADKDYGLMKIDEPSPYHG LTGDDENACSDTETETMVS DI LAKKLAEEGLEPKYVWVQEQE SSGEEDLLAEE
15486	45854	A	15576	1	1851	
15487	45855	A	15577	73	418	GKPDGDKVSHQLLLWKG/YSF/ PPSLMKLSLAGYEILS*KFFSLR TLNIGPPLSSGFRVSAERSTVSL MDFPLCITQCFSAPALNIFSIST LVNLTIMCLGVALLEQYLCCVL
15488	45856	A	15578	2	460	

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15489	45857	A	15579	1	2031	MATEVFLIPYALLQCSLASYPSP KPGIYVPSQPMWVGSVTCSDQ KNTIEVLVPKAYTLARQQYKSL SEQVYSCHQGTNLNTRAQESAAS LLKPARPRTRQKKETPNTSEHQ KEQTLDTPLRTVTLTRVRGFI LEVSETKNPPISDTMGLDISKQE EVLGRESDEQGEQSQGLSEMQ TALAMLLTREPISAKQAPHEPP RRQEDNTQAREGETRSRKTRA EGQKGHAHAENERNAKERESE RKRQEAEDENGKEKQERNEGT HARHMKRRKRDEKKRQGQNK PGNKRPEGNEEAQRRRKKNRE RQRFSEFYQSGPSAAGLLVFAGG PLQSLFAWVSPLEAAEQQRFLS VPSSGPLRKFCLYFGFVGNA TP LRGLNTHGRLLTPAHGTRRRHT RPLNSPVPEKAGSTTESNGSPY GQNPGLPPKGNRAQGEKWM GRRIQGTTRPRAREANHKMT QIMFETNTPAVYMAIQAMLSL YTYGCTTGIVMDSDGVTHITVP IYEGYALPRAILCLDVAGRDLT NYLMKILTEHSYSFTTMAEREI VCDIKEKLYYVTLDFEQEMAT AASSSSLEKSYELSDGQVITIGN ELSCCPEALFQPSFLSMESCDIH KTTFNSIMKCDMDIRKDLTYNT VLFGGNNMYPGIANRVQKIVTL VVMGSSILALLSTFQQMWVSK
15490	45858	A	15580	485	886	VPYFHFTCSHSSASQLPFLQMM KIAKTCSLGLNRLPEAKLKAFP TPRVTS/LWPRQGRPRR/GCGR NRSGSLVSAARGVGGRSQAAA ARRDAPSPPATSRMPPRQGSVS WGCARNAPGRRADPEVRRQPG PSCT
15491	45859	A	15581	1	435	
15492	45860	A	15582	2	339	HRCSTGAFSTAASNSNADRP ARRRGLPR/RGPP/SRRRSRPP REPWPRTRRPRTRTAKARRRAT LEGRCRRACGHWPRAAAAAA AAAAAAVAAAAA GASATW

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15493	45861	A	15583	1067	2093	RRNTSSKCRSRNCRCPSPHRRH RPSLRPSRQPKCKCRPSRRSS RAPSSRRSRPQGLVPC*RAPPW PTSRWPGSPGFPLLNCSRKGRC RPRHPSQPRCPCRSRLRWCPSRQ LWSPHRESPPCP*TSRGSAAWRS VSIHRRQQDRPWWTQPVHMQQ LLKLLKQAAVQQQKAIQPAQAQ GPAAVQQKITAQQITTPGAQQK VAYAAQRALKNPVSYHTLPG PETGRGPASADPDGCKTSSSCS TANTRGQHPASCLCFPAGFSTD CGAHAGDGGRAAGADDPSCSDR DCPGGSAETHSAAGGDHGVGP APDSRRSQSPGARQLRQPKPA AQVTDEGPCCQAKDITY
15494	45862	A	15584	10	607	RALCGESRLPLARKLS*AKKSV QRSTLQSRRIWVCWFHFAN*SL F*KQGR*ESPL*L*LIPAS*RPS TSESPL*KANFQQPHRGL*EKV AEGRRGP**EYVTSSSSSSSSS SSSSSSSSSSSSSSSSSSSSSS SNSSNSRHRRRRRRRLSFLSR RRRHSRCCLSRSPRRRPRRHP ARLWLSRCTDQRKNFQLPRK TV
15495	45863	A	15585	217	1012	AKNDSKRQNFGRGQPTFGAD KAKGERVRTSSTIRTSYLDIT GPYLTGQWPRDPHGHPSCMK DKATQTPSCWAEEGAERSHQ RSAISWGSADQLKEETPTDLQ NAQQKLYKPEEVGCLISDFLKE KENCQPRILYAGKLSSECTPDE EAVNIVEMITKDLEYINLVDK EWQGLRGLTPILKEVLRVKCY QTASHATKSGMKGVQSFGK LHCYFKKLPLQLPSATAILISQ LTSTRELHKKKDCNLLKTQMI
15496	45864	A	15586	2	387	
15497	45865	A	15587	1	165	LFMFCCLYIR*QLLHPGYNAPP QNTAATRGRGIAQTAEAAFL FLHQRVRFH
15498	45866	A	15588	172	359	PDGDGIESINYLGGYGHFHDIDS SYP*AWNVLFPVCLFYFIEQWF IVLLEEVFHPICKLDS
15499	45867	B	15589	1	2850	
15500	45868	C	15590	1	2835	
15501	45869	C	15591	78	491	

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15502	45870	A	15592	1	5721	MAVLSLPLAPPTLMPPAHFNLV EMQVKATLKKEYWQRKSPGIPA GANRKKKINGSSPDATSGGYH SPGDSATGIYEGGHASSATLED LELRQPTPSTSPNDCSLVPSQS SSNSSSLHAPHSQYRELAVALH SSSAIISQLSENINSLNENKKSAL QLERQVKELKLGELKETVTS DP SNNGWEAVTSLWEGERLPARG AEEPRGSESTAAARPVPVSPAA VRGRLVAGEPGSYQPAETAAK AQLSLMALPGEY
15503	45871	C	15593	178	1287	
15504	45872	B	15594	52	855	
15505	45873	C	15595	1	1698	
15506	45874	A	15596	302	617	NLAVNPSGPGLFLIGKLLIASIS EHVIGLFRDSTSSWFLSRGVYV SRNLSVSSRFSLVFDDGDVQMG FWCGCPLCLLVFLLTAGPSAA GLLEFAGGHLQTLFA
15507	45875	A	15597	1	2762	MYGTGYRDVAGKWAIDPDSK REFLDVTQEGIGCDFSGTCRQ TLSILTQPLRWGLEGIKKPNS WIIEESVSNGGPPLIPRQTAS GVDLQQTPTDLQRLVTVRRK TNKQKGIASSTKRTSTPKPHL YVTIHKDQSYIKPQRWGKNIAE KLKILKIRVALSLQRNAAPHQQ WNKAGRRMSLMSSQKKASEVI ESQMNEIKGEEKFREKRVKRNE QSLQEIWYDVYKRPDLRLIGVDP SDGENTRLNTLQDI
15508	45876	B	15598	1	1989	
15509	45877	B	15599	1	762	
15510	45878	A	15600	686	850	GQPERKVGLPTKGSPSD*QRISR QKLYKPKESGGQYSTFLKKRIF NPEFHIQPN
15511	45879	A	15601	2	382	
15512	45880	A	15602	1	993	
15513	45881	A	15603	3	460	SPCWGQLLQATQP/ATAFAQKD LLVGAVLFGHNGSLSSRNTLAF SMDVGPSQWMWGLLNGCGAS AHRQCTRCTLQVITALEGLPLAP LKLAWHKKIYIFLGAAEIRRD QLEAERELFHSRAEQGRFLVGR PGQAAHMLPPGDCVSIWTOH MIT
15514	45882	A	15604	1	130	
15515	45883	B	15605	1	561	

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15516	45884	A	15606	94	420	EKAVGRWIFQSKRYRSPCEKPY SKGLQVQRTVPEGPSKAAARA QAPGPNLLPCLPT/PQTPEFIIEP LANMYSCGNQNTLMEELAEQA QQHDEMLHMHALKEALSIS
15517	45885	B	15607	46	747	
15518	45886	A	15608	186	364	AFAPAPCTLVPGVLRGPPILLRE TGLAH*CPAVISPPKSLPWLPTA YVESQOVILFGL
15519	45887	A	15609	155	511	GAAVAGTQNLCLGGGAVGG S*RGALNGEGLHPGYNAFPQN TAATRDGRGIAQTAEAAQFLFL HQRVRFHC*FLLWREGRGR*AR REPLSRPQPPAGPLGGALPAPPL PDASTLVGVG
15520	45888	A	15610	1352	1684	MSIRSAWCRAEFNSWISLLTFC LVDLSLVFDDGDIQMGFWCCG PFCLLVFLTTAGPSAAGLLEFA GGPLQTLFAWASAVVAEEQOI LVSSKCCCLIVPLEVLSQRSTWP
15521	45889	A	15611	98	367	
15522	45890	A	15612	426	738	VCCVWGDPPGAGHGHEAAATL WKEKVDLKERVEKLELQFIHLS GQTDITGRKYISQGVASETQHW ERTTSSGWP*GPGGDEGEPA AGQVLQLVGDHKEGKGK
15523	45891	B	15613	86	1411	
15524	45892	A	15614	950	1493	GTVFLWRRRGTILFRVSGFSAL FFPPLWFYLPFVDDGDLQME FWYELSFLLMLLLFLCACWFSF *QSGPSAAGLLEFAGGPLQTLF AWVSAVAEEQWILVNRKCCC LIVPLEVLSQRSTRPCEVSVHPY VHCCLGIEELNIYCSLHSLGLFE AILLGKAFELGCCDPSLFATV
15525	45893	A	15615	1	5731	MDSHRPTAWPAAVLAGRSPVA AESERYCSRQPLPRRQALLSV LVLASDTRLPPFWSSQTFCGILS KPLVLSGPLQTQGETNENGLV GGGEVGMQPLVLFERSLFPGR CVLERRIVPWMRQESYSSSSI WVDSDELNLTSVLECLEDDK NNNLLHQQLKWLICGLCRLYN LPKHLDVAMPDQPLPMGQSGP SAAGLLEFTGGPLQTLFAWVSA ALAAEKQILVNCKCCCLIVPLE VLSQRSTWQYELKEYW
15526	45894	A	15616	2	521	

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15527	45895	A	15617	1	1261	MSEHNITEECQEQENQSQIEWRSI AHSDSIEVSWLHEVIKTYLKAK STKLDLMMKKLKESSQPSRKPK PFIPSQEGTGDNDVIYSTERLSK LLNQKKGSTRLYDKPLSNLLNQ KKVSTRTEGLIVDSRADMRNV TTILLSTESSSTDSSSSMDSSSM DSSSSIGRIVETATCAMIPVQKSK RSGPPQGPSAATGDGAEGRFLP RCSRWPADRLAWSQPRRLAP GPSAATGDGAEGRFPPLCSCCG TDRLAWPQPOGHLALLPRCGE CGRARELPGDCCLHAEGGCSSV LEVLAIRAIKQKEIEIQIGKQE VKLSLVADDIIFCLENATDSSRN LLELIKEFSKVSRYKINGHKSV LPYINSYQAENHIKNSTPFTIA TNNNNKK\KNLGIYLAKESKDS YNENYKTATERNHRWSQAR
15528	45896	B	15618	60	499	
15529	45897	A	15619	134	1416	RTSICWTMDSSVQNTVLGPTRS SVKGVMEWLQYLMERR/CTL SISMESMPRVAEDAGDVGAEE PLHLEPPAGPLEVEQQLQAEIK HLRKTLESALGQLAQVEANE GSSHLNRQQDERLREWKAELW EEQGETGRSSVQKDRTTISHAL SQNHQLEEQLAKEERLEATSQ NQQLQSQMSLMALPGEGDELG SKEEEEAPQMPMSILEDLKSREA MVAFLNSALVSAEEEQQAQLH GQLKEQRVCCQHLAHPVALAQ KEPEAAAPTPTGTGDSAVWTV DLQVEKTKFIMFTIKPGEVVK DMAQSIYRSGKNLKDMDYGH DLEARRKTNRLPFTTFFYLSYE LDYSRCFIGCLKCLCLPSPATI GSFLKPSQKQKPVCLLYSLQNH EPIKPLFFINYPDSYSRYHTQVIR ILLSGSIHVQVPATKTP

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15530	45898	A	15620	1	1665	MGGHVGGRRHMLTPKLIPETL AAGSMKINPEEPNRPPINGAPG GPALPLAAGDSGSEQAGEPALA ASELQGWDSLGLSGPSLGRGTGI VATRSRSGRGLSPASLGRRSR DRKTKELAFAGSGLATRCQRA SSDAAGPPLSRCSPARTPQLPV RGLSLTGPRAPAPPRARVCLLSC SCRQFPPLTGGLNVGRPSGGS WKICPRSLPSASAEIGIRRRRAA AHPPLQPPPLCGESLPSVQCSA NADSSIPVPSRWQDQACRNTGA AGPPGYACVNNRNRDTKNSQ LDETHHMKTKVTDGRGGGFAFT MLLRVVDGTGHTSCSGSVEWDP RLYGDQADLSRSGHLDRPGA HDYYTAIKKCEEGSLDITTVK VKAGVNGFGRIEHLVTKPAFNS GKVDIVTINDPFVDLNNMVYM FQYDSTHGKFCGTVKAENRKL VASGNPITVFQ/ERDPSKIKWYI AESTCIFTTMEKAGADLQGGGA KRVIIAPSADAPMFVMDVNHE KYDNSLKIVNSASCITNCLAPL ANVIHNFIVGEGPMTTVHAIITA TQKIVDGPSPGKLA
15531	45899	A	15621	2	1105	GRVGCSTVSRIFSCVASRATSLR TPMGKVKVGVNGFGRIGRLVT RAAFNSGKVDIVAINDPFIDLN YMVYMFQYDSTHGKFGHTVK AENGKLVINGNPITTFQERVPS KIKWGDAGAEYFVESTGVFTT MEKAGAH\QGGAKRVIIAPS ADAPMFVMGVNHEKYDNSLKI ISNASCITNCLTPLAKVIHDF GIVEGLMTTVHAIATQKTLD GPSGKLWRDGRGAFQNIIPAS TGAAKAVGKVI* AERGLTGL MAFRVPTANVSVVDLTCRLEK PAKYDDIK\VKQGVGGPPQG AILGYTEH\QVVSDDCNSGPPV FPPFDAGVAGIALNDHFVKLISW YDNEFGYSNRVVDLMAHMAS
15532	45900	A	15622	121	221	
15533	45901	A	15623	189	538	

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15534	45902	A	15624	3	1015	DRAGPPGAPRLGQQLLCATILL GLAKKKKEINITIIKQLKKFLN KKPSYGLERQMETTQNLVDSY MAIVNKTIVWDLVGVMPKTI MHVMINNTKEFISELLSNLYS RGDQKTLMEESAQAQWRDE MLRMYHVLKEALGIIIGDINTTII STVPWGPVDNSWLQVQSVLARR R/SPGLAPTAPSLPTPHRI.SLGA LGTGSVPTLLHHPGSSSVSSLSG LVA/DCFLPKARGGPGQRLPF PSLPGRLECDLAVAPPAPKAAP FICDFVYCCDQASEPVGCGQGT APHRLHGSGLIPQAPPQSIQA WLRAAVFWKGALCPRCGRHIQ EFLHRTLVSL
15535	45903	A	15625	547	1242	PKALIKTSNKSLSYQLTTHSGT MACPWIRHEVLLSRLGFLVLEN TNMDKRPKLLRWLERQMETT QNLVDSYMAIVNKTIVWDLV GVMPKTIHVMINNTKEFISE LLSNLYSRGDQKTLMEESAQA AQRDEMLRMYHVLKEALGII GNINTTTISTVPWGPVDNSCLQV QSVLAGCSFILLVQAVFLLYQA W/LLFWAPQGERWPWTSGL DTV TREEGSPKGLSISL
15536	45904	A	15626	108	308	AQKHLLT*LSFLPRH*ILT*NL KIPTS KIKKT PRSRPRSTSCFL DNLAPSCGCSGKSSWRIC
15537	45905	A	15627	687	1910	KDHQLRKKLRRRGKQGAFTAA LPPGSPRPLRGGRSGGVGLGV RGQRTQAPQAVTPSEGPEPLW GPVLGGGGEHRRGTGASAAAG ASMRRLGAAGGGAGAGPQRG VGARVVVSEEA NSPGA AITSNR ETQDANEGLSAPRPECLLHPTC RLLYVPLIVRDWVCHTRSVVLL QVVNVGTGIAVGTGLASAYDTL MSQSFQVKNLKRVGILQRGVL ILMLCCFFCWADLVNTERILL LKQDPKSPGWTR ECFQEWGSI HLVIPSMFMVCTEQWTFEIGNF LAGLIDVME LGTQGIICELASV AYMNYFRLNPQPPISDFITINLAF LTLTERKILGYIQLRKGPDIVGP YGLLQPFTDAVKVFTKEPLWPS TSTITLYIIAPTALSHIVLLALPT RMLAATPRPRGT
15538	45906	A	15628	1	1173	
15539	45907	A	15629	3	1447	



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15540	45908	A	15630	1	215	MDPKQEEIPDSPEKEFRYRIAE WIRIHQPIICLQETHLTHKDSH KLKV/KGWNKAFHANGHQKSA ARETK
15541	45909	A	15631	1	1524	
15542	45910	A	15632	1	575	MALSERSQPQDHVSHDRIYVK HPEYANLYRQKVVDYTLPRVIS IHVGQAGVQIGNARWELCYCLE LAIQPDGQMPSDKTIGGGDDSF NMFFSEIGAGKHVPRAVFDLE PTVVDRCLGHWMAAFLEGEV HTGTYRQLFHPEQLISGKEDAA NNYSRGHYTIGK/EDLVLDRIH KLLTSQCRKPKATMWLSQAT
15543	45911	A	15633	208	465	
15544	45912	A	15634	107	827	EARRPCTLHLRSALHPATMCEL YSKRDTLGRKKHIGPSCVKVF ASDPIKIVRAQRQYMFDENGEQ YLDGINNVAVHVGHCHEVVK ALKQMELLNTNSRFLHDNIVEY AKRLSATLPGETLCLLFYKFRG YWPSSNTNPSRPAAPASPPAAE RAGDFRAGRKPSVPGSRVS PRGPCSRLSLSTFCTRYCPLSAL TSGPGCPYMCFFLSRVRLLY SSHMVAGCRALRRCKNSH
15545	45913	A	15635	3	1218	GGLWEKMAAAA\QSRVVRYLS MSRSAITA\ATSVCCHGPCCRQL HHALMPHGKGRSSVSIVAT VFGATGFLG\RYVVNHLGTAW GSQVIIP\YRV\IKY*QSMHLSFP WG*PGGQLSVFLGNWGTARD* RFLFRRVSYNTGNVGSILFGTR LGETKNF\DFWRDVFVKIPQAIA QLSKGSWEFEKFISCFHIWNGG II*KALS*DI*GNKAVGEKVVRD AFPEAIIVKPSDIFGREDRFLNS FASMRHFGPIPLGLSLGWKT KQPVVYVDVSKGIVNAVKDPD ANGKSFAFVGPSRYLLFHLVK YIFAVAHRLFLPFPLPFAYRW VARVFEISPFEPWITRDKVERM HITDMKLPPLGLLEDLGQATP LELKAIEVLRHRTYRWLSAEI EDVKPAKTVNI

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15546	45914	A	15636	2	799	GLWEKMAAAQSRVVRVLS/ MSRSAITAIATSVCHGPPCRQL HHALMPHGKGGRSSVSGIVAT GFGA/TGFLRRYV/VNH/LGRMG SQVIIPYRC DKYDIMHLRPMGD LGQLLFLEW/DARDKDSIRRVV QHSNVVINL/IGTRP/WKSKNSD YEDVFVKIPQAIQLSK/EAG/V EKFIHVSHLNA/NIKSSSRYLRN KNRKREKEEMKKDLLSKKEPE PEDLENSQLIHIAKNEKACFEEN TKSVAEQPFDEEIVDATHQLTS YLGRSQE
15547	45915	A	15637	560	1394	RKSSSVHNAASGLLGSRA PGAH RHLGRRCRCHRLVSPSPAMAE DLAASATSYTEDDFYCPVCQEV KTPVRTTACQHVFCRCKFLTA MRESGAHCLPCRGVTRRERA CPERALDLENIMR/KFSGSCRCC AK/QIKFYMRHHYKSKCKYQ DEYGVSSHPNFQISQDSVGNRIE NNTGIKQIPGAPFGDGRVVGCR QRNAKTELLAAAGESPCTMSL GSGPNLGPSPRSKSSSVTSPOPC FTEHPRERFVSFPVHYVLEGRS MSFLLWSLKTDRIFGH
15548	45916	A	15638	1	1026	MKVVCKEVKFEKQCPAEVLLH WEQTDDDENKRCDLREPRKPE THTKGPGLLVPTTQPGRNEGQS GADGKHARCCKTSCLSGKEPS FIITEHCPLVPVQNTTIKPDGIR ILQTLDSRETFTMSTALDVLQM KEEDVLKFLAAGTHLGGTDLD FRMEQHICKRKSGGIYIINLKRS WEKLLLVAPAIVA IENPADVSV ISSSSTGQRAMLKCAAATGATP IAGHFTPGFTFNQIQATFPNPRV LVVTD CRTGHQPLAEASYV/NN LPTIALCHTDSPLHHVDIAIPCN R/KAHSVDLMWMLAREILPMIR GTIARKHWEDPEEIEKEEQA AADKALTKEEFQGE
15549	45917	A	15639	20	441	TAEIAIPCNNKGAHSV*G*MWR MLAREDLRMGRGTSGEHPWEV MPDLFYFYRDTEEIEKEEQAAAD KAVTKEEFQGEWTAPAEFTAT QPEAADWSEGVQVPSVPIQQFP TEDWSAQPATEDWSAAPTQA TEWVGATTDWS
15550	45918	B	15640	88	531	
15551	45919	A	15641	1	1302	

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15552	45920	A	15642	150	957	KAGASCCGSANPYVSVGKSCV LLAMAQLQTRFYTDNKKYAVD DVPLSIPAASEIADLSNIINKLLK DKNEFHKHVEFDLIKGFRLRM PLDRHMEMENISSEEVVEIEYV EKYTAPQARSNAWFHDDWISSI KRGRGRILTGSYDKTSRIWSLE GKSIMTIVGHTDVVKDVAWVK KDSLSCLLSASMDQTILLWEW NVERNKVKALHCCCKGHAGSV NSIAVDGSGTKYFGLRIEPPKA VSLVEEINSLSYRWTADNYKV GSGGKEED
15553	45921	A	15643	3	393	VFCCPHCSLTFSKSFSSFSRLVR HQQTHWKQSYLCPICDLSFGE KEGLMD/HLEGL*RQGPQSSH HKCRVILQWLGFSDVPTMA GEEWKHGGDQSPRIHTPRRRG LREKACKGDKTKEA VSILKHK
15554	45922	A	15644	335	537	VYFKQVTLDSRCRL*ERQVKST SSWNILSSTWRLPFCPTSVVLR LTWICLRTITSSISWFPADSS
15555	45923	A	15645	153	828	

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15556	45924	A	15646	1	2002	MLESAGNQDIEDVDIVLRQIQV KNRSTTEVGQNGNLQVEVSYT QAHIAPRPLASQGTWPHFVSSA PQPCFQVQNHISKYQNLYYSGFI RETEPISKGDVGEWLSAGKGES SAMFASEQEISKDEQGTPLVGS FYWEVDSPRKESQAWAPGQE WIKLERDITTEKMFELKPIEP VQKTLPWVGEVAATLQEAMK RDCWREARVKKKPVTFEDVAV NFTQEWDCLDASQRLVYQDVS MSETFKNLTSVEGKKKELREQ HPSLRDEGTSDDKVFLACRGA GQCPLSAPAGTMDRTRVLQAS QAGPP/FFATTVGKCFSSRSYL YSHQFVHNPKLTNSCSCQCGKLF RSPKLSYHRRMHLGERPFCCT LCDKTYCDASGLSRHRRVHLG YRPHSCSVCGKSFDRDQSELKRH QKIHQNEPVDGNQECETLRIPG TQAEFQTPARSQRSIQGLLDVN HAPVARSQEPFIREGPMANQ ASVLKNQAPVTRTQAPITGTLC QDARSNSHPVKPSRLNVFCCPH CSLTFSKSKSYLSRHQKAHLTEP PNYCFHCKSFSSFSRLVRHQQ THWKQKSYLCPICDLSFGEKEG LMDHWRGYYKGDLCQSSHHK CRVILGQWLGFSHDVPTMAGE EWHKGDDQSPPRJHTPRRRGLR EKACKGDKTKEAVSILKHK
15557	45925	A	15647	1	1048	MPSLAELFEGSSKAFGAAASQL NFPVASGEMLKFKYGLRNLPLH AVAAEPIASRTSRLNLFQGGKPP FMTQQQMSPLSREGILDALFVL FEESQPALMKIKHVSNFVRKY SDTIAELQELQPSAKDFEVRSLV GCGHFAEVQVVRKATGDIYA MKVMKKKALLAQEQVSFFEEE RNILSRSTSPWIPQLQYAFQDK NHLVLMMEYQPGDLSLLNR YEDQLDENLIQFYLAELILAVH SVHLMGYVHRDIKPENILVDRT GHIKLVDFGSAKMNSNMVN AKLPIGTPDYMAPEVLTVMNG DGKGTGYLDCDWSVGVIAIY EMYGRSPFAEGTSARTFNNIM

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15558	45926	A	15648	101	220	KRQQAFLGLDLHQWFARGSQG FRLQTEGCIIGPPTFEV*RHSGFL SCQSSCTGSFSSVWADVPLMFE GAAQPV*PVPSRGADFRPLSIC *RSSRILLVKRCENSGVR
15559	45927	A	15649	597	808	ITMKSQRQIIKAVTTKEMKSV CRRD/TPAFMFIAALFKIAKIRIQ RLCLSTDEWIKKMWYIHTMEY YSTLK
15560	45928	B	15650	161	3156	
15561	45929	A	15651	14	270	
15562	45930	B	15652	787	1821	
15563	45931	A	15653	1	2412	MAKSKGCSAATLSTHQILVTP WSCDNQKCLQTLPNVPGGTLK LLCEDHWFRNDSCNQAIPAT LLSFPSLQASLWTTFLSPLNH HPVNPDSHLEQPPQSPRLNFE AGDPERAPHALGCKRSRTRTS DRQPMASRDPGWGKASVGA CALGSAVLPAGNDCTTDNLGL GSAGFEDLRLRLGQGP RRQGA LQAAPRKASSCAAGQRLAPDSS FSRKR RPSRQLGCEAAVADT AEAKSSEAPAFGWSTMDEAGS SASGGGFRALDEPPNSRIFLVI SKYTPESVLRERFSPFGDIQDIW VVRDKHTKESKGIAFVKFARSS QACRAM EEMHGQCLGPNDTKP IKVVRPGSGCPRGKEWASWTS HLLLCRGGGV EHPFPAADQT APGLGTGAALRRGSPPTKLRRV AGKGTGCGVFAPRERTROPRPP GDRTA VAGLPSPSPSLIHQLSS LPNSS*PTLSTFLTFLSQMPRFP YIKNGKTL/PFPQVFIAQSRSSGS HRDVEDEELTRIFVMIPKSYTEE DLREKFKVYGDIEYCSIKNKVT GESKGLGYVRYLKP SQAQAIE NCDRSFRILAEPKNKASESSE QDYYSNM RQALGHEPRVNMFM PFGHGVVQYFNVASAIYAKYK LHGFQYPPGNRIGVSFIDGNS ATEKMATQMVAAQLASMVVN NPSQQQFMQFGGSGS QLPQIQ

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15564	45932	A	15654	375	2059	DSSVWQTPQKQRAVRPLHSGG APWTKLAALRATRGFRPGVDS LDEPPNSRIFLVISKYTPESVLRE RFSFPGDIQDIWVVRDKHTKES KGIAFVKFARSSQACRAMEEM HGQCLGPNDTKPIKVRVPGSGC PRGKEWASWTSLLHLLCRGEG GVEHPFAADQTAPGLGTGAA LRRGSPPTKLRRVAGKGTGCG VFAPRERTRQRPDPGDRTA VAGLPLSLALTNPPELFTAKLVLA YFEYFSDLPLSDAQISYKKRKN STFPQVFIAQSRSSGSHRDVEDE ELTRIFVMIPKSYTEEDLREKFK VYGDIEYCSIIKNKVTGESKGL GYVRYLKPQAAQAIENCDRSF RAILAEPKNKASESSEQDYYSN MRQEALGHEPRVNMFPFGHGV VQYFNVASAIYAKYKLHGFQY PPGNRIGVSFIDGNSATDLLIK MATQMVAQ/RLHQWCGITQV SNNL/WQFGSGGSQLPQIQTD VVLPSCKKKAPAETPVKERLFI VFNPPLPLDVLEDIFCRFQNL EYVLVSGKNVGYAKYADRISA NDAIATLHWKDWSEWGET
15565	45933	A	15655	257	412	
15566	45934	A	15656	3	866	HAASPCCCYEKQSPQLQHLRV CSLRTWSLAARVAEGTAETVD PSAAPKTSVWSSRVCWGRLLA TISPSVNETDTGCMEDRRLVVC RPWRAQCHMKAWGWRHPPEEG GTHSGAPSAVLQALAVAIQLGG HLADPLLQVDPLSSCGAVSLDI LIYLVFYRTASVPETYIVKTLF KKLESQSLIQSNVLTSSNSMKA ERGEEAAKEKSEASRGWFMRF KERSCLHNIKMQGEAASADVE AAASYPKDLAKITDEHGYYTKQ QFDVYKTAFCWRVRLKKYVK LLFVLCPLP

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15567	45935	A	15657	333	1034	RLSTTVMRGAFVFMHMKMPRL WLDYQCQFLMDQGRVTHTRRT FDRALRALPITQHSRIWPLYLRF LRSHPLPETAVRGYRRFLKLS ESAEEYIEYLKSSDRLDEAAQR LATVVNDERFVSKAGKSNYQL WHELCDLISQNPDKVQSLNVD AIIRGGLTRFTDQI.GKLWCSLA DYYIRSGHFEKIRKAPVNGGPT WMVGQNSVPRFQTRRLTPLKR KGPLVTDFREKQPTPLAQE
15568	45936	A	15658	172	346	ARPCRWCPS*TSASAPGGLR PCPPAGGDRTPASPLHNQAAA APPGPTWRGAAAS
15569	45937	A	15659	293	482	
15570	45938	A	15660	468	791	LAKCGCLEARGRARQTSGRPRP TDGGP*SPCWETGKGHPVLGR RGS/PGKQGL*SLPQSCQGW CAASRLSSKNSWACMGSGREA VSQETGTSSSSLGLMRPSDKKP
15571	45939	A	15661	366	609	
15572	45940	B	15662	321	739	
15573	45941	A	15663	1	1815	
15574	45942	A	15664	1	1911	
15575	45943	A	15665	437	1125	PVSCSGHSRWAAA AISIALSMIE TVNMVFTFYSRHHGTISTRVL/I GKRPERQDQDQTVNLGTLEET ASPSPVVTTSPQPMLPSAFPPL SEEINPALPEATVMASPEAVAR QDNVDSAQEPPTPLCASRPTT RQKSWWGARGEVESVTHEEM HYTGKELLEFSNL YKEKSGEQA WEWILRVVDNNGRNIQLDHPE FVDLGPLSRNSAFNAVVRGVK KGSKSLFAWLGEI
15576	45944	C	15666	49	186	
15577	45945	A	15667	80	877	GAERLPEPGPKRMVFRFVE/V GRVAYVSFGPHAGKI/VSAMVD VFIDQNKGFWSNGPCTQVR/RQ AVMPFKCMQLTDFILKFPHSAH QKYVRQSLGRREDINTKLGQP TRWQGGRFESQEEKEKRLTDF *SVF**RAKEN*RDRIINPRNE V*EAFKRAAFPGKASSQKAPG Y*GVLLAAAAAAAAAAAAA AAAAAAKIVPAKKITVAASKK APAQKVPAAQKATGQKVAAPAP KAQNGSKSKKQKAPAPKASG KESISGNHKK
15578	45946	A	15668	253	1218	
15579	45947	A	15669	1	1819	

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15580	45948	A	15670	1	2422	MCPILREHRGSTEGRKRRQKRLP LELTLKDEEVLAHREQIEVAKA SPSKGNIIHFGYKGV EYHDQQ DVTSNFLGAMWLISITFLSIGYG DMVPNTYCGKGVCLLTGIMGA GCTALVVAVVARKLELTKA EK HVHNFMMDTQLTKRHCPWAA TIQPKLSFLISLP GCDYRGESAR ARPLSHPPQLGLGKDARYLR CDRSLLCVCAAAGNAGLRPRD SPHTLLHWSRSPYFFSPKPVPP QLLGGQPAAHRRDDLGEAGV GRGGCCFAALRGVQSEKWSGF HTVPEPAPGQGDVMPVLVRPT NRTRRLDSTGAGMGPSHHQQ ESPLPTITHCAGCTTAWSPCSFN SPDMPETPLQFQRGFFPEQPPPP RSSHLHCQQQQSQDKPCPPFA PLPHPHHHPLAHQQPASGGSS PCLRCNSCASSGAPAAAGADNL SLLLR TSSPGGAFRTTSSPLSG SSCCCCCSSRRGSQ LNVSELTP SSHASALRQYYAQSAQQSAS ASQYHQCHSLQPAASPTGSLGS LGSGPPLSHHHHHHPAHHQH HQPQARRESNPFT EIAMSSCRY NGGVMRPLSNLSASRRNLHEM DSEAQPLQPPASVGGGGGASSP SAAAAA AAVSSAPEIVVSKP EHNNSN LALYGTGGGGSTGG GGGGGSGHGSSSGTKSKKKK NQNIGYKLGHRRALFEKRRKRLS
15581	45949	A	15671	1	246	SEPPHRRGPTGALPSGAVRRGPL SSRPQIGRSTDSLHCVP GKATD AQRQP VKAAGSGAVPCKATG WSCP KL*EPISCINVTIC
15582	45950	B	15672	43	741	
15583	45951	A	15673	687	1012	FHTSRPFWNISELSRFICQKYKK PWHSVSDFYRYQFFICQGTACC PASLRM*HCPN*ILQGTSSQNCC SC SGKSCSPMQRRHRSTVCSGS GTFCVGSCESEFEGTYFSR



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15584	45952	A	15674	1	1640	MSCDTNGEVEGGRVDSKTRGR QEVERTNTETHLGSGLNCDIPLIF LTYEWRGILEYKIFSVKTGEVL GKPGQLGHPTGQTTFETGTQV TSMQEMGSYSFGQHPVALQG TAPLPAFTGWRLASVAFPGTQ CKLSVDLPIWGLEDSGPLLTAP LGSAPVGPLCGGSDPTFPFCTA LTGPSAASLLEFARGPLQTLFA WVSAEVSABEQGFFVNHECCCLI VPLEVLSQLRSTRPCEVSVCPYW GVPPRDRSNQCPSGFTLDSVGP FCADEDECAAGNPCSHSCHNA MGTYCYCSPKGLTIAADGRTC QDIDECALGRHTCHAGQDCDN TIGSYRCVVRGSGFRRTSDGL SCQDINECQESSPCHQRCFNAIG SFHCGCEPGYQLKGRKCMDVN ECRQNVCRPDQHCNTRGGYK CIDLCPNGMTKAENGTCIGECL AVSVTEIS/CAVNKSNIDECKDG THQCRYNQICENTRGSYRCVCP RGYRSQGVGRPCMDIDECENT DACQHECKNTFGSYQCICPPGY QLTHNGKTCQGKLPFKQIESGG
15585	45953	A	15675	1	669	MGFCHDGRSIAFRGERGNDESA IEMIKVSHLKQYLA VVFRDKPL ELWDVRTCTLLREMSKNFPITIT ALILTGRCASLKWRSKPKKEEF MGYRQWNPTQESSKGDFEIQ EGGPSMATVYRTEMQPVQIGIE LLPSPLSFHSPNSGIPNDPSWL LSTATLHPPTGVERSSSPATEQR WTENDFDELREEGFRRSNYSEL REDTQTQKGEVENFEK/NLEECI
15586	45954	A	15676	1	323	MAHESAEDLFHFNVGWWHFSV PRSKLSQFPDSSLWKEASALT/S SESQRLFIDRDGSTFRHHVHYL YTSKLSFSSCAELNLLYEALG LQLMPLLQVRCSCFLGVVDQ
15587	45955	B	15677	1	1443	

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15588	45956	A	15678	1	708	* EVTASPPQGVSAVSKGDKQKWT ALGKGLTFIKAVGSIQRNRWRG WQLKALYQCTTIAGATGVFLR VYRALDVLQMEEDVLKFLAA GIHLGGTNLDFQMKQYIYKKK CDGVYIHLKRTWEKLLLAACA IVAIENPADVRVVISSRNTGQRAI LKFAAATGATPIAGRFTPGIFTN QIQATFQEPQHLFFTDSDRH/S PLTEASYVNLHTIAPRNTDPLC YVDIAIPCKKGAHSVGL
15589	45957	A	15679	78	757	REIFINVRSLLMACFVKEEDVL KFLAAGTHLGGTNLDFQMEQY IYKRKSDGIYIHLKRTWEKLLL AARAIVAIENPADVSVISSRNTG QRAVLKFAAATGATPIAGRFT GTFTNQIAAFAFREPRLLVVTDP RADHQPLTEASYVNLPTIALCN TDSPLRYVDIAIPCNKGAHSV GLMWWMLAREVLRMRGTISR EHPWEVMPDLYFYRDPPEIEKE EQAAAE
15590	45958	B	15680	1	1767	
15591	45959	A	15681	98	412	
15592	45960	A	15682	521	600	PSPGES/PPLQDPDPVPWPWPPEE EPRA
15593	45961	A	15683	117	285	
15594	45962	C	15684	12	468	
15595	45963	B	15685	1	840	
15596	45964	A	15686	1	1173	
15597	45965	A	15687	1	2931	MDLFMNVAMLRARYLWSEA VSOFGAQDPKSLALRTHCQTSG WSLTEQDPYNNVIRTIEALAA TLGGTQSLHTNVFDEALGLPTD FSARIARNTQIIQEESEL CRTVD PLAGSYIIESLTDQIVKQARAI QQIDEAGGMAKAEAGLPKRMI EEASAREQSLIDQGKRVIIVGVN KYKLDHEDETVDLEIDNVMVR NEQIASLERIRATRDDAASDTR EIVDLTNGNIKTFGNSIIHARFD TGRHLFSGGNT
15598	45966	C	15688	1	1779	
15599	45967	B	15689	22	1531	
15600	45968	A	15690	98	412	
15601	45969	A	15691	521	600	PSPGES/PPLQDPDPVPWPWPPEE EPRA
15602	45970	C	15692	175	454	
15603	45971	A	15693	332	494	RKEMASGFSKGPFTLGCCRRAL PDGDTQLQLLRGNHDSVLGA KRRDKGEAGPD

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15604	45972	A	15694	2	1276	HTLHSLVTILGTWALHSGPALL LPRPGSGLDFFLLSPVLPSQPQPG LPTPTPFTNAVQLLLTLKLVSLA SEVQDLHLAQRKEMASGFSKG PTLGLL/RRRALPDGDTQLQLLL RGNHDPVLPPLPHLPGLAGAAL PRGSA\SLRPLRRAWPAPLFG LFLSSHLFPLEAVREDAFYARP LPARLFYMPVFFAFRMRFYVA WIAAECGCI AAGFGAYPVA ARA\GGGPTLQCPPSSPEKAAS LEYDYEYETIRNIDCYSTD RDGMRYWNMTVQWLAQYI YKSAPARSYVLRATWMTLLSA YWHGLHPGYLSFLTIPCLAA EGRLESALRGRLSPGGQKAWD VWHWFLKMAYDYMCMGFV LLSLADTLRYWASIYFCIHFLA AALGLGLALGGGSPSRRKAAS QPTSLAPEKLREE
15605	45973	A	15695	134	601	RDGEQPLWAWGSPCPVAPT CILWAPSSGPGPSFRPSAPATP WLWPGLSPISCDSEPSASWACP LPCPSPKPDRWLLTLKLVSLAS EVQDLHLAQRKEMASGFSKGP TLGLL/RRRALPDGDTQLQLLL RGNHDSVLGAKRRDKGGQTII FVQV
15606	45974	B	15696	76	504	
15607	45975	A	15697	11	706	HITRGRSCTRWISSAMAKGAPR VILLCLFGAALCLTGSRALQCY SFEHTYFGPFDLRAMKLPSISCP HERFEAILSLDTGYRAPVTLAR KGCWGTGPPAGQDAIEPGRAAA RLLGIVRGCTTDKCNHLMTH DALPNLSQAPDPPTLSGAECYA CIGVHQDDCAIGRSRRVQCHQD QTACFQGNGRMTVGKGLEGW KGLGKGYGGRAAMRVVIPDRP NRETWPCSEVGGMTLV

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15608	45976	A	15698	2	1642	DEGRAKGHHHTWQQTRENSQA KGETPYKTIRFRETYHYHKNMVG ETTPMIQLSPTGSLPQHVGIMG ATIQDKIWVRTGLPGFPGTGL PVSSGFPSPGFPGLQGGPPVSYG PTGIPGPIGPPGPGMLMVSSGPP GLPGPKVILGLNFQGPKEKVS KGLQGGPPGPGQISEQKRPIDVE FQKGDQVSNQDRGPPGPPGIRG PPVSTGGGKEKGEQGEPEPKR VSEKDGENGQPGIPVSSGDGP YPGEPGRDG/EKGKNVMGPPGP PGFPGERGQKGDGPPGISIPGP PGLDQPGAPGLPGPPGAPGPH IPPSKLGDTCFNCIGTGISGPPGQ PGLPGLPGPPKLA/GAPGAPGFP GSKGEPGDILTFPGMKGDKGEL GSPGAPGLPGLPGTPGDGLPG LPGPKGEPVCTFKGERGPPGN PGLPGLPGNIGPMGPPGFGPPGP VGEKGIQGVAGNPPGQPGIPGKF GDPGQTITPGPKGLPGNPGRD GDVGLPGM*GLPGQGLPGIPG SKGEGPIPGILPGPPGPKGMLL
15609	45977	A	15699	246	433	GLFPLEPGANGI*GC/SGIRAQ RWLPGRPKFTGESFIR*PPRVAK ESGQLIWFGCVPTQISS
15610	45978	A	15700	179	5262	RSCGSRMRMLKRGVSLAAGLFL LALSLWGPAAEAACYGCSPG SKCDCSGIKGKGERGFPGLG HPGLPGFPGPEGPPGPRGQKGD DGIPGPPGPKGIRGPPGLPGFPG TPGLPGMPGHGAPGPQGP NGTKGERGFPGSPGFPGLQGGP GPPGIPGMKGEPSIIMSSLP KGNPYPGPPGIGLPGPTGIPG PIGPPGPPGLMGPPGPPGLPGPK GNMGLNFQGPKEKGEQGLQG PPGPPGQISEQ
15611	45979	A	15701	155	623	FNLYPPGPSHN/DVGMGATIQD KIWGGPGLPGFPGTGLPGERG FPGSPGFPGLQGGPGLPGTGP GPIGPPGPPGLMGPPGPPGLPGP KGNMGLNFQGPKEKGEQGLQ GPPGPPGQISEQKRPIDVEFQKG DQVSNQDRGPPGPPGIRGPPVS
15612	45980	A	15702	581	687	KKGAGQVV/DDVQLAQLRAQA NEIVLSWNCWMLCKQY
15613	45981	A	15703	7	123	

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15614	45982	A	15704	1	374	RFRKAQCTIVERLTNSMMMHG RNNGKKLMTVRIVKHA FEIHL LTGENPLQVLVNAIIN/DVSPLR RVNHAIWLLCTGAREAAFRNIK TIAECLADELINAAKGSSNSYAI KNKDELERVAKSNR
15615	45983	A	15705	2	892	QAFLPITPDQLSNYKVF AKKTA LWQNDDVHSQHKG EYRNAAG EPKYRNSVTTHSEGGK WQSEK KDLGVGYWSMACYKLGHIAG NEQQKHICGGIAKKWKQPKCP PTGKWPAAVVKPATESEGGGAK KEEKAHLPRVVEKELHESSRHI RHSIESVLLQAFQKDYTA VKE KYAKYLPISAERYAAKRFRKA QCPIVECLTYSMMTHGRNRRK KLMIMRIVKHA FEIQLLTGDNP LQVLVNAIINSGPREDSTLTGRA RIVRRQAVAVSPLSRVNQAIWP QCTGALEVA AFRNIKTIA
15616	45984	A	15706	1	536	
15617	45985	A	15707	8	437	
15618	45986	B	15708	255	1058	
15619	45987	A	15709	609	1489	LPLSLPRAARPAVAPHLPPREP PALPLPPPQPPRPSLPGSAQGC NS*RTGTAAAGAGPFAPASMSL RVQTPCWQPGAREPPGSCAS WLFCAVWQMVRAHSGCLAPP PAAAAWVAAQLQP*DGHEGPG G*ET/S*VLRRLPTPTPLPTWCC TVRPRRPVLPFLIMRRRTAGPP CAPIAAAPTTSSLRRGKVPTGR PPVL*G*AAVMLTMAVITITRTV TTSNAAAVMPKGTGAHRA LTPGTV*RDCLVKPTAQMPPS APPWTAPPRVAVAPVIVLPAIS NLGAFA
15620	45988	A	15710	173	530	GRERGDKGGAVQTLQDLVNV HLGLTYPPRPGHSGSPSWAS APLQPPLRGEPGHGWGS/PSGL GQKSEGLGPAHL PRAARPAV APHLPPREP GPALPLPPPQPPRPP SLPGSAQGCNS
15621	45989	A	15711	1	227	
15622	45990	A	15712	238	498	
15623	45991	B	15713	1	1017	
15624	45992	B	15714	590	649	

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15625	45993	A	15715	3	843	AVFLSTSNEAVYKIFDDSCPPT AKTCNPETFPSSNESRQCPNAR CQFAYFGGESGYHRALLGLQIF NAFMFFWLANFVLALGQVTLA GAFASYWALRKPDDLPAFFLF SAFGRALRYHTGSLAFGALILAI VQIIRVILEYLDQRLKAAENKFS YVCLMTCLKCCFCWLEKFIKFL NRNAYIMIAIYGTNFCTSA/RNA CFLLMRNRIIRDVLDKITDFLFL *GKLLIVGIVGILAFFFFTHIRIRI VQDTSPLNYYWVPILTIVIGS YLIAHGFFQRY
15626	45994	A	15716	1	449	FRGMGDERPHYYGKHGTPQKY DPTFKGPIYNRGCTDIICCVFL LAIVGYVAVGIIAWTHGDPRKV IYPTDSRGFEFCGKGTKNENKP YLFYFNIVKASPLVLAGI/QCP TPQICVEKCPDRYLYTLNARSS RDFEYKQFCVPGV/PRTIKKA NGVLEAGNSPCAYLKITPSLGT DY/PWFLLEFQCPITPQICVEKCP DRYLYTLNARSSRDFFEYKQFC VPGVQEQ
15627	45995	A	15717	627	1665	EQAGQALSTAPVGDGHELLCE VGSSSFRDVLGTSMGLCGGY/G GAS/GMGGITAVTVNQVLSPL NLEVDPMQGMHTQEKEQVK TLNKSASFVDKVLFLFQQNKM LETNWSLLQQQKPAQSNMDN MFESYINLLGQLEILGQEKLK LEAELGNMQGLCMFFVKEDFK KKYEDEINKPTMENEFVLICK DVDDAYMNKVELEFRLEGLTD EINFLRQLYEEIEPQLSQILDTS VVLSDMNSRSLDMSIIAIEKY EELQTLAGKHWDRLRLTKTKIS EMNRNISRLQAEIEGLPQRPEQ RASLESVIADAEQRGELAIKDA KTKLSELEAAQRAQDMAHG

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15628	45996	A	15718	3	3908	STQOKTARSNMDNMFESYINN LRRHVETLGQEKLLAEELGN MQGLVEDFKNKYEDEINKRTE MENEFVLKKDVDEAYINKVE LESRLLEGLTDEINFLRQLYEEI RELQSWISDTSVLSMDNSRSL DMNSVIAEVKAQYEEIANRSQA EASMYQIKDEELQSLAGKHG DNLRCTKT*DLLR*TRNISRLQA EIEGLKGQRAFLEAAIADAEQC GELAIKDANAKL/SELEAALQR AKQDMAWQLRLMN
15629	45997	A	15719	1	804	MKPRTLVVSVTVLKDGVSRC SFRCSDVSRISFQWVRLADF RNEATDPHGLDDILTLRQDKG SFMICWLKKGAPPGDPAPPRITP TVRFSTMDLSAASHIRIPLSDGN SIPILGLGTYSPEKSLWATNHVP FMVRPTLERTLRVLQLDYVDL YIIIEVPMFAFKPGDEIYPRDENGK WLYHKSNLCAWAEAMEACK\ DAGLVKSLGVSFNFRQLELIL NKPGLKHKPVSNQVECHPYFT QPKLLKFCQQHDIVITAYSPLW TSTNP
15630	45998	A	15720	476	906	WKQSHSHQTWYLLTSEACKD AGLVKSLGVSSFNRSR/QLELIQN NPKLKPVPVSNEVECHPYTQP KLLKFRQQHDIVMIAYSPLGTT RNPTWTNMSLPSLKDALLKR CNKITAQVILRFNIQQGVVPIPK SFNPEKIKENLQA
15631	45999	A	15721	138	217	RHAPQVLGLLSEGT*GGHRCPA RGHW
15632	46000	B	15722	8	578	
15633	46001	A	15723	1	3087	
15634	46002	A	15724	1	2232	
15635	46003	A	15725	1	2085	
15636	46004	A	15726	1	1512	
15637	46005	A	15727	1	1260	
15638	46006	B	15728	1	2145	
15639	46007	A	15729	1	1353	
15640	46008	A	15730	1	1741	
15641	46009	A	15731	1	1995	
15642	46010	B	15732	1	3464	
15643	46011	A	15733	2	109	FTFWHDFAAAGTGCSFPCLVLP SWW*QNLSAFACL
15644	46012	B	15734	90	1247	

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15645	46013	A	15735	1	1698	MELKAKAQELREECRLSRRC NQLEESVSVMEDMNMKREG KFREKRIRNQEQLQEIWDYVK RPNLRLTGVHESDGENGTKLEN TLQDIIQENFPNLRQANIQIEI QRTPPQRYSSRRATPRHIVRFTK VEMKEKMLRAAREKGWVTHK GKPIRLTVDLSAETLQARREWG PIFNILKEKNFQPRISYPAKLSFI SEGEIKSFTDKQMLTDFVTTRP ALQELLKEALNMERKNRDTHR LKIKGWRKIYQANGKQKAGV AILVSDKTD FKPTKILDKKEGH YHIVGLIQEELTILNTYAPSTG APRFIKQVRSDDLQRDLDSHTLII GDFNTPLSTLDRSTRQKVNKDT QELNSALHQADLIDIYRTLHPK STEYTFPSAPHHTYSKIDHIVGS KALLSKCKRTEIITNYLSDHSAI KLELRICKLTQNHSTTWKLNLL LLNDYWVHNEMKAEIKMFFET NENKDTTYQNLWDTFKVCVTG KFIALNAHKRQERSKIDTLTS QLKELEKQEQTHSKASRRQEIT KIRAELEIETQKTL/QKINESRS WFFERINKIDRPL
15646	46014	A	15736	1043	1536	TSTELSTPNQONIHFFQHHTTSI PKLTTYLEVKLSS*KKH*TWKG TTGTSCC/INHAKIVTHRLKIKG WRKIYQANGKQKAGVANLV SDKTD FKPTKIKRDKEGHYIMV KGSIQEELTTLN IYAPNTGAPR FIKQVLSDLQRDLDSHTLIMGD FNTPLLT LDRSTRQKVNKDTQE LNSALHQADLIDIYRTLHPKSTE YTFFSAPHHTYSKTDHILGSKAL LSKCKRTEIITNYLSDHSAIKLE LRIKNLTKNRSTTWKLNLLLN DYWVHNEMKAEIKMFFETNE NKDDTTYQNLWDTFKAMCRGK FIAVNAHKRQERSKIDTLTSQ LKELEKQEQTHSKASRRQEITKI
15647	46015	A	15737	1208	1387	KPWQKNYVTHAQASVADLIK WKKGYQ*LKIK*MK*SKRSLE KKE*KETNKASKKYGTI
15648	46016	A	15738	308	487	KPWHKNYIMHAQASVANLINW KKGYQ*LKIK*VK*SEKRSLEK KE*KEMNKASKKYGTM
15649	46017	A	15739	220	1101	
15650	46018	A	15740	1	1534	
15651	46019	B	15741	365	3904	



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15652	46020	A	15742	79	506	EPSQRHSQDLQGWSEHQVCL HRVGVGHGHCATCILPAATASHE GPEAW/TARLLVPQTAVGICSA FSGLPSTSTHEPTGMHFLPSEAHE KPRTPQPDQKGRDDLPCTPSTC LHTSLFLDTGQEFGTCTCRMAGLK EHVAGDNRERRQ
15653	46021	A	15743	2	71	ELKF**FPIPSRKTSPLRQGS
15654	46022	A	15744	1	627	MKAIEIKMFFETNENKDTTYQN LWNTFKAVRRGKFIALNAHKR KQERSKIDTLTSQLEKEKQEQ THSQASRRLNQEEVESLNRPI GSEIEAIINSPLTKRPGPDGFTA EFYQRYKEELPK/YLLKQLQQS LRIPNQCAKITSIPKHQ*QTNRE PNHE*TPHNCFKDNKIPRNPTY KGREGPLQGLRTIAQRNKRGH KQMEEHSMML
15655	46023	A	15746	1	3828	MQLPVQTIAADGYVIKLQKRRT EDGHQSPERHQFPHLSSYSEQE TTRVPFAKAVASGFPDGTTLVF CASPPSPQVHLPTQAVADIFSE FHEHYARJSTAPSVTLKANMM GSEFPTARLSNSKYPETLEVGES AQPVPMYTWKTVAQDRKDGVS SPPLLEKQSITKSISNKPVELSSK VVEVDASKADHMKKMASMGL VHSMAGSGLVLSRSEILKEISSL RNGCAIYRSEFISTDPSSWVVP PRTNEENNGES

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15656	46024	A	15747	1	1639	NCLSDHSAIKLELRJIKLTQNCSTTWWKLNNLLNDYWVHNEMKAEIKIFFETNENKDTTYQNLWDTFKAVCRGKFTALNAHKRKQERSKIDTLTSQLKELEKQEQTTHSKASRRQEITKIRAEKKEITQKTLQNNINESRSLFFEKINKIDRPLARLIKKKREKDQIEAIKNDKGDITDTPTEIQTITIREYVYKHLANKLEYLEEMMDKFLDITYTLPRLTQEEVESLNRPTTGSEIEAIINSLPTKKSPGPDGFTAIFYQRYKEELVPFLKLKLFQSIEKEGILPNSFYEASIIIPKPGRDTTKKENFRPISLMNIDAKILNKILANRIQQHIKKLIHIIIDQVGFIPGMQGWFNIRKSNVIQHINRAKDKNHMIISIDAGKAFDKIQQSFMLKALNKLDIDGTAIRQEKEIKGIQLGKEEVKLSLFADDMIVYLENPIVSAQNLLKLSNFSKVSQYKINVQKSQAFLYTNNRQTESQIMSELPFTIASKRIKYLGIQLTRDVKDLFKENYKPLLKEIKEDINKWKNIPCS WVGRJN
15657	46025	B	15748	1	1563	
15658	46026	A	15749	1	4332	

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15659	46027	A	15750	1	2319	MRIDGAQELTLALPFASGVACR DVKPGPRRRPLRYRCFQKPSNR LGSASLGAGFWAGRRDAKSGH DDDPGALFSVTMDRDLEQAL DRAENIIIEIAQQRPPIRRYS PRA GKTLQEKLYDIYVEECGKEPED PQELRSNVNLEKLVRRESLPC LLVNLYPGNQGYSVMLQREDG SFAETIRLPYEERALLDYLDAEE LPPALGDVLDKASVNIFHSGCV IVEVRDYGQSSNMQPPGYQSRH ILLRPTMTQLAPEVKTMTDRDGE KWSQEDKFPLESQILATAEPL CLDPSVAVACTANRLLYNKQK MNTDPMEOCLQRYSWPSVKPQ QEQSDCPPPPELRVSTSGQKEE RKVGQPCELNITKAGSCVDTW KGRPCDLAVPSEVDVEKLAKG YQSVTAADPQLPVWPAQEVED PFRHAWAEGCQAWDTKPNIMQ SFNDPLLCGKIRPRKKARQKSQ KSPWQPPDPDHSALWRPGETD AGRAVSQAQESVQSKVKGPGK MSHSSSGPASVSQSSWKTPEQ PDPVWVQSSVSGKEKHPPT QLPSSSGKISSGNSFPQAGSP LKRPFPAAPAAAAAPAPAPA PAAAPALAAAAAAGGAAP SHSQKPSVPLIKASRRRPAAGRP TRFVKIAPAIQVRTGSTGLIGH QRGGPSPGSPGISGSLQSSGGP LPDARFGSSAGCAPLCLGQQP

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15660	46028	A	15751	409	1874	YDSYIVVIDDADITRGDDAVPR DHHSSSTSMVVFRHRLDVIVVD GDDQHRMVGRRCSAWFRF GSLDVDQVIGDTAAGRLNVMG DITRDARRDKVKNERYGVA PSVAFGLGTANRLYLYLHVTQH NTPDGGIPTIGLPGYSAPSAGTA ALNHSGKVDTHNFYGTSDSDYD DSTTDATMRFEHDINDNTTIR NTTRWSR/S/WTWSRTANTKDV SNKILTNQTNLTSTFYTGSGH D VSTGVEFTRETQNTNYGVN PVTLPVAVNIYHPDSSIH PGLTRNGANANGQTD TFAIYAFDTLQITRD FELNGGIRLDNYHTEYDSATAC GGSGRGAITCPTGVAKGSPVTT VDTAKSGNLMNWKAGALYHL TENGNVYINYAVSQPPGGNN FALAQSGSGNSANRTDFNPQK ANTSEIGTKWQVRGSSRVNVM HEVNTPHQCVRFRPARSAPGCC QSPCHRSGKHMQYGLSKCQPG QYNSVKSGERVNGVTFQ
15661	46029	A	15752	421	441	P*ARMPSPLGPPCLPVMDPETT LEEPETARLRFRCYQEVAGP REALARLRELCCQWLQPEAHS KEQMLEMLVLEQFLGTLPT EIHAWVRGQRPGSPPEAAAL IEGLQHDPGQLLG
15662	46030	A	15753	J	346	PAFGGSAPSERLELHVDGPP PRPQAPGD/CGVGRSWRAEM/ HDRALRGNTNPRHILRSCCA RARRRP*RRSAPPGRAN:PS* SSWGPSTPGNYRCRYRSWVP HPTFKSELNDPVELLVA

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15663	46031	A	15754	1	2091	MKPGRLRRRRGRGLCGGLGPQL RATWSGAVLAGRDAVLRCGEP IPDVTFELLREGETKAVKTVRT PGAGAKLELIFVGPQHAGNYRC RYSRLVAHTFESELSDPVELLV ΛVAATLNIHLRLVHMLHIPAAG EGSFREGTHFLKPSPVKMPLVF RVGRRRLVNLQGPQGVPIPIRSC EHLNWQKGLCGVTKCAAPLLR GPCCPAVLRKEIPFVSLKPLGMS SKASEAEPGLPRLGSHQSTAAA LGPRYNGSADAIRPHTAWAVIQ TTISRFTWSLTQVNVPSRTVSLA VRRDRYMTSRTTTNPEEGCRG TFWARRNGCPSACAVAEAL EACLADVRYPPVALSCGRLQK RRDFRETNAAMSNEKSLASA RFFVEVQVTLGALCTVQATGQ SMLVFTTQMSSYSEKFLTSHK ASLSPLQLADRWRDQGMKW QSPQWGELRPAASHTAEQEPGL AASKAFRDLQNLNSAFLSLTS LSAGHQCSAIVVMMSKKEITP QGQLAAASFGELQPVALKCPW LKSHVYESWLIRPEAHSKEQML EMLVLEQFLGTLPEIQAWVRG QRPGPSPEEAALVEGLQHDGP QLLGWITAHVLKQEVLPAAQK TEEPLGSPHPSGTVESPGEGPD TRIEGSVQLSCSVKEPNVDGQ EVAPSSPLAAQSPEGNHGHE PASTSFHPPRIQVSSPKWEV
15664	46032	A	15755	1	208	EVAQMPRVSTPATLPSLPQPAL
15665	46033	A	15756	3	373	MAPWTPVPYDQLMEEKARAR YAGTIQKWTAAALQLPRTSLK DSGEGTSKWGRSVDTTQPLSPA IPVIFQ* AHEQSGHSGMDGGYA WALQHGLALNTDLA
15666	46034	A	15757	3	266	
15667	46035	A	15758	3	587	YPASAGLMLQNFVIGLRYHF AIHSPAAGGLDGLHAAVAIQG ITKIETTPNHQRAPAHWLLTQ QAHLQPSPLHFNPLTLCLMHC PTAIPHCADARTWVNLPTSSLI GHKKENLKEFISGSLIVHEILEE VLQAEQDFQPFTRVTVHWGKG NDQTFRGLLDTGSELTLIPGDP KHHYGPPVKVGAYGAQQL
15668	46036	A	15759	1	1566	

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15669	46037	A	15760	1	981	MVAIAKVLIAVKEDSDSHNQPN TRMTVSKGVPVSAVEGGRRGQD SDDCVVEENDAVRTWPPSRILRT ESHSPHTCSWRRHLLSSCPYT GMSEFIPSSGNISSTHAVISFPPL SEEMNPMLPKATVMTSLEAAA RQNLKSRQAPRCEVESVTHEEV YYTRKELFEFSNLYRKKSGEQI REWILRKTDGSWRITVDYRKL NQMVTPIAAAVPDV/VVSLLEQ INTSPGTWLNCHNLWRDLDCFL LPQNITLVHYTDDIMQIGSSEQE VANTLDLLPALMASW/ENSP*SI DRGRED*SLVHKWFCTICRHHP KVDSCTTAPF*DIEGQQ
15670	46038	A	15761	349	718	AGPEGTTTACPI/COOQRPILS LRYGTISWG/DQSATWQVVDY IRTLWSKWSQASAKTTIHGLT KCLIHHDIPHSIAD*GTCFMAK EVWQWYCFSHSQDSRVQESRG GIGSCTTHHHPCSPFN
15671	46039	A	15762	143	469	ARIQ/GSRNQGVVEVAPLTVT PSDPLANVLLPVPATLPSAGLEI LVPEEGRLLPGDITMMPLNWN LRLPHGHFGLLLPLNQAKKKG VAVLGGVIALDCQDEISLLLYK
15672	46040	A	15763	1	2712	
15673	46041	A	15764	3	578	LKSRQAPRCEVESVTHEEYVYT RKELFEFSNLYRKKSGEQIREWI LRKTDGSWRITVDYRKLNQMV TPIAAAVPDV/VVSLLEQINTSP GTWLNCHNLWRDLDCFLLPQN ITLVHYTDDIMQIGSSEQEVAN TLDLLPALMASW/ENSP*SIDRG RED*SLVHKWFCTICRHHPKVD SCSTTAPF*DIEGQQ
15674	46042	A	15765	1	461	MTVDYRKFNQVVTMAA/AVP DAVSLLEQINTFGTWYAAIDL ANAFSPVPVHEAHQKQFALPQ GYINFPALCHNLIRRELDFFLLL QDITLVHYIDDILLIGSSEQEVV NTDLLIHKRSKEAETHAASRIR VSCLPEQKSHEQTLPEQVQP
15675	46043	A	15766	1	1371	
15676	46044	B	15767	54	864	

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15677	46045	A	15768	2	1148	PRGRNRRRKTFQERRMTLNESP EKIGKWIECYGHPPASKLVEIYI HTVFVEDKLSICIRSFNKKADGS WRMTVDYCKLNQVVTAIAAAI PIEFHCLSKLIHLLIPGMQPLT WQ/HALFSIPVHKGYINSLALC/ Q*CYLERT*LLFTSTRYHTGPLH **HYADWIQCARSRKQTGLTG KGQRFLVTERDTYVGYFTYPAH NASAKTTIHGCTECLTHPHVIPH SIASEQDTHFTAKEVWQWAHG NGHHWSYHVPHPHPEIARLIEWW NGLLSQVQCHLGDNTLQGW GKVLQKAVYALNQYPIYGTVS PIARIHGSRNQGVVEVAPLTIT PSDPLAKCLFPVPKTLCAACLE VLLPGGGMPLPGDTTTTPLNRK LRFPLEHFGLL
15678	46046	A	15769	917	2352	DTISHQLEWRSLSKSETTGIAEI SATIKDLKGAGVVIPTTSLFNSS VWPVQKTDKSWRMVTDYCKL NQVLTPNAAAAPDVVPLLEQIN TSPGTWYAAIDLANAIFSPVHK AQKQKQFAFSWQGGQYFTVLP QGYISSLALCHNLIRRDLDGFL LQNITLLVHYVDDIMLIGSSEQE VANALDLLVRHLCVRGWEISPT KIQGPSTLVKFLGVQWCGACR DILSKVKDKLLHLAPPTTKEA QRLVGLFGFWRQHIFHLGGLLQ PLYLVIOKAAIFEWNPEPEKVL QKVQAAVQAAALPLGPDPTDPI MLEVLVADRDAVWSLWQALI GESQQRPGFWSMALPSSADN YSPFERQLFACSWALVETECLT MGHQVTMQPELPIMNWMLSDP SSHKVVQAQQH/QEVAQMPRV STPATLPSLPQALMAPWTVPY DQLMEEKARARYAGTIQKWT AAALQPLSRSTLSKDSGEGTSKW
15679	46047	A	15770	1	861	
15680	46048	A	15771	5	90	
15681	46049	A	15772	1	324	MVQEASEVIGQLQSSAAK*AM HWAGFSYLTKKSLNAN
15682	46050	C	15773	1	726	
15683	46051	A	15774	364	543	ARGAARSMKHTSGDETQRQKL D*VRLTGIRASREEVTKAGPR KRIMCSGMDLNGGLQL
15684	46052	B	15775	1	1056	
15685	46053	A	15776	1	282	

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15686	46054	A	15777	167	954	KRVTSKLSKSPRRGSPHCSRNPV LLRGIGRYSRSAMYSRKAMYK\ RKYSAAKSKVEKKKKKVLAT VTKPVGGDKNGGTRVVKLRK MPRYYPTEDEVPRKLLSHGKK\p FSQHVRKLRASITPGTILILTGR HRGKR VVFLKQLASGLLVGTG PLVLNRVPLRRTHQKFVIAFTT KIDISNVKIPKHLTDAYFKKKK LRKPRHQEGEIFDTEKEKYEITE QRKIDQKAVDSQILPKIAIPQL QGYLRSVFALTNGIYPHKLVF
15687	46055	A	15778	1054	1403	MVEGGILRVNTSVECKTGPFF SPHILWREPFCSVQVGGKKKK VLATVTKPVGGDKNGGTRVVK LRKMPRYYPTEDEVPRKLLSHG KKPFSQHVRKLRPSITPGVTILIL TGRHRG
15688	46056	A	15779	1	388	
15689	46057	A	15780	1	456	MKLPEEGSLSDICCSAIFAVLQP LLVIPRETGSGVDLQQTPTDLQ LRQTESQIMSELPFTVASKRIKY LGIQLTKDVKDLFKEIYKPLLSE IKEDTNKWKSPCSWLGRINIVK MAILPKVTYIFNAIHKLPMTEL EKT\FIWNRKRACI
15690	46058	A	15781	1	504	
15691	46059	A	15782	1	1836	



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15692	46060	A	15783	285	1949	RGEMNSRGRNLSIINKTDFPFI ALNAHKRKHRSKIDTLTSQK ELEKQEQTNSKASRSHEITKIRA ELKEIETHNKPFFKISESR/SWFF IFYF/ERJNKIDRPLARLIKKKRE KNQIDTIKNDKGDITDPTIEIQT TIREYYKHLAYANKLENLEEMD KFLDTYTLPRLNQEEVESLNRPI TGSEIEAIINSLPTKRSPGPDGFT AEFYQRI.KQCRKAHLDPVSLT HRSGPGAREDR LSDSGDASRGC WNLSQHAAVTSPSEERRIRTL SCRSVGVCCRSTPDPVCLGISSG GCRTVNIGEQQMLLPDRSSGSF VSEGYRCPCEVSAPTGGCPPVRC LMINTVSLIGVKFTEVFD SINISE HLELACLDHNSLLAREQNW EDEFDELTEVGFRRWVITNSSE LKEEVQTHCKEVKNLETRLDE WLTRITNAEKSLKDLMEKTM AGELRDACTRFSSRFNLEERV TEIEDQMNMEMKQEEKFREKRIK RNEQSLQEIWDYVKRPNLHWL GVPESDRENGTKLENTLQDIQE NFPNLARQTNIQEMQRMMP
15693	46061	B	15784	596	1414	

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15694	46062	A	15785	610	2986	QTERNSININRNGHQHQNPICRS PSSKTKGSIKPQRSGRNQSRKA ENSKDQRTSSPTKDCSSSPATE QRWMENDFDELTEV/VLQKPG RDTTKQKEKFRPISLMNIDVKI LNKILANRIQQHIKKLIHHDQV GFISGMQGWFNICKSINVIIHIN RTNDKNHMIISIDAEKAFDKIQ QPFMLKTLKKLIGDGTYLKIIRA IYDKSTASIIILNGQKLEAFPLKD RTRQGCPSPPLFNIALEVLARA IRQEKDIKICQLGKEKVRSLFA EDMIVYLENPVSAFNLFKLISN FSKVSGYKINVQKSKQVFLYINN RQRESQIMNEFPPTIARRRIKYL GIQLTRDVKDLFKENYKPLLKE IKEDTNKWKNNMPCSWIGRINIM KMAILAKVIYRFNAIPIKLPMTF FTELEKVTTLKCI*NQKRAHIAK PILSQKNKAGGITLPDFKLHYK AAVTKTAWYWYQNRDIDQRN RTEPTEIMLIHYNHLIFDKPDKN KKWGNDSLFNKWCWENWLAI CRKLKRDPLTPYTKINSRWIE DLNIRPETIKTEENLGNITQDIA MGKDFMSKTPKAMATKAKIDK WDLIKLKNFCTAKETTIRVNRQ PTEWEKIFAISYSSDKGIISRIYNE LKQIYKKKNPNPIKKWAKDINR HFSKEDIQAASKHYKKHSTSRIF MQIKTTLYGYLTPVRMATIKKS KNNRCWCGCGEKGTLIHCW/M
15695	46063	A	15786	1	906	MVNNQRYHIPIGGTAEISGTICK LKNAGVVIPTTSPNSPIWVPQ KTDGSWRMTMDYHKLNQVVT PIAVAVPYVVALLEQINTFSCST WYAAIDLANTFFFSVHKA/HK K*FAPSROQQYTFTVHPAYDN YSPFERQLLACYWASVETEHLT MGYQVTIQLLEPIMNWLSDPS SHKLGHAQHSIIKWKWYIRD RARAGPEGTARIHRSRNQGVVEV EVAPLTITPSDPLARFLLPVPTIL HSAGLEVLVPEGGTLPLGDTT IPFNWKLRLPPGHFRLLLPLNQ QAKKGVTVFAGVIEAIKMK

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15696	46064	A	15787	1	909	MVLEVSVDSDRAVWRI.WRAPI GESQQRSLGFWSKVL.PYSADN YFPPERQLLACY.WALLETDRLT VGHQVTLQPELPIMNWLSDPS SHKVGHVHQHSIIKWKWYIRD QTRAGPEGTTTPVITQ.WDAHE QSGLSGRDG/KGQRFVLTGVDT YSGYWFAYPAHNASAKTSIYG FTECLIHCHGIPHSIASDQGT.LFT AKEVWQWAHAHGIHWSYHIP HHPIAAGLIEWWNGLLKSQLQ CQLGDNTLQG.WGKDLQKAMY SLNQRLIYSTVSPISRIHGSRNQ RVEVEVAPLTITLSDPLAKFFFL
15697	46065	A	15788	1	754	MQNNVDSFQEPPTPLFSSRPIA RLKSKQAPRGEAESVTHEELES RLAKTSDKISSLTFRRGWGKV LQKAMYALNQHPYGTVPPIPR DGSRNQGVVEKVAPLTITLSDP LAKFLLPVLSALHSAGLEVLVP EGGILPPGAGDMRMIQLNWK SLPPGYFGLLLPSQTKKGVT DLGGVIDLDYQDEISLLFHVKV NGKLQQPNPDRTTSGPDPSGM KVWVTPPGK/EPQPAEGLAEGK GNTIEWVVEE
15698	46066	A	15789	686	1506	VETVHMLQIGEFKKTDSV/WK TVDYHKLNVQVVTPTAAAVPDV VSLLEQINTYPGTWYAVIDLEN AFFSVPVHNAHQKGEAFWSQG QQYTFTVLPQGYINSPTLCHNLI RRDPGHFSYPQDITLVHYIDDI MLIGSSEKEVANTLDLLPIYQV TLKAANYEWGPEQEKAVQQV QAAVQAALPLGQHNPA DPTVL EVSVAADRDAIWNWQAPIARIH GSRNQGVVEVAPLTITPSDPL AKFLPPVPATFCSAGLEVLVPE GGMLPPGEIETIPLK
15699	46067	A	15790	422	537	VNQGVVFCAIIN*YECLKQSF KTQTDYFPSPLNTSQ
15700	46068	B	15791	1	519	

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15701	46069	A	15792	53	753	SLGTGTLRVLLGTAAEQMLQFS HLIYADYGGKPALEDINLTLESG ELLVVLG/PSGCGKTTLLNLIAG FVPPYQHGSIQLAGKRIEGPGA RGVVFQNEGLLPWRNVQDITVA FGLQLAGIKKMQRKFAHQML KKVGLEGADKRYIWQLSGGQR QRVGIARALANPQLLLDDEPF GALDAFTRDQMOTLLNLWQE TGKQVLLITHDIEEAVFMATEL VLLSSAPGRVLERLPHI
15702	46070	A	15793	2348	2760	LWLVCINCFIPAFLLMLRWLPR LKPLSQLSVPTYRLPSVPFLKPT GMESPEAISRVSGKGL*RDSDA YSVLSYHYPIIRHPSIIVDIIRS SIDP*PIVDHSSIAKRSCTFPLG YWEVVFVQLTFGQQRQASGILQ
15703	46071	A	15794	2	415	HPGLETTDLLSPLPAALEPQQQ GRPSIQGAPRGSFTRIEAGTPHV PAPCPAAQRNQGWGLVGAWL GFMAP*EQSVASSWK*PLMKS QYSREVISHLPLVPMQQRVPM TQSMWGWLVWFPALFLVQIGH LVMSSGHS
15704	46072	A	15795	428	885	GISMKLSRISAI/NWNKISDDKD LEVWNR/LTSNFWLPEKVPLSN DIGAWQTLTVVEQQLTMRVFT GLTLVDTLQNVIGAPSLMPDAL TPHEEAGLSNISFMEAGHARSY SSIFSTLCQTKDVDAAYAWSEE NAPLQRKAQIIQQHYRGDDPLK K
15705	46073	A	15796	1	1125	
15706	46074	A	15797	57	303	SHKHADALLYPADPVCTAC* LLRGNRRDQSKSITAKRHATA HFRFVRMVRHGNH/SRLRPDSF R*PVSPDR*PPLRAAHFR
15707	46075	A	15798	3	430	
15708	46076	B	15799	1	1338	
15709	46077	A	15800	380	1043	WTRWRASADNLAHGRWGEO KLVTVTGASGAPDQAAARCGC IWRKISWYRSKGSKHPLTPKEV EKTGWGLKIRGMGKQQA/ERV KEAARILELDGLKRRPRELSG GQRQRVAMARAIVRDPVFLF DEPLSNLDKLRVQMRLELQQ LHRRDQVEAMTLAQRVMVMN GGVAEQIGTPVEVDGDDTLEIL GADNLAHDAGRAEAGGDWRI RSARRSSTCAH

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15710	46078	A	15801	1	900	MAAIAFLITWFLSHDKKRIRILK RLSGGNGMADEFPGGAVVFTV LNLTHWLEDWGLPVHWRSSC MPSGLEYLIVLIFKGVIVAVHLL IVDALNLIRRIHAV/QGSPCVET CQHALDQLIMHSQPTHAVAVF DDENRSSGWRHQGLPDYKAGR PPMPEELHDEMPALRAAFE/QR GVPCWSTSGNEADDLAATLAV KVTQAGHQATIVSTDKGVCQL LSPTLRIRDYFQKRWLDAPFID KEFGVQPQQLPDYWGLAGISS KVPVAGIGPKSATQLLVEFQS LDGIYENLADVAEKRWHKL
15711	46079	A	15802	1	1350	
15712	46080	A	15803	1618	2082	
15713	46081	A	15804	1	803	MINLIGSDVNYDWLKLPLVHL HWYDKEVRPGRKVGHLNLTDS DTSRLTATLEALIPLLPPEYASG VIWAQSLIRCVKHRIRHCPIAG CGTGCRPDKTRQASHQAQMSN AYDYSEIQGIGKQKAANRVAEP RTYHSFASITDRRADLLKPGNH AQDGRLTAAARRADKHDELFIG NFQKADNRGQVSDSVEGNSNC APVKPAPIPTERIPALMASMPA CASSMPIHACGGTPSPAQAARK ISGSGFEFLSWEASAKVKNSR SSSAKIVGAFRETEASPTICC ARRSASKEKMPG*ARADPHRA HTAGVNGVNARLRIFNADTCL RRHAQPCTGGEKDFRVRFRVF KLGSIRAEQEKLALQRR

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15714	46082	A	15805	1	1655	MRGHNWIDMDQARQSTPHPT DRKICHKNDPRKTTPLRKIDAH PHTLILPAESTLSTTKYKLRAL LVENTNKDKSAVS VFRGSVL HQAANFPNMLCFQLKNGVN ACNDFIMLFVDDNAAGSIERAA SPCINEKQHAFSESVPAIAAVRG LGSMAVFEFNDPQTGEPSAAIA QKIQQRALAQGLLLLTGAYG NACKRRIDYVCRIKHSRRIRQV VLLNFAKSGAFSTTRGTDDKLT PVIQPRASGEYNEEFSLP VVN YLKDKLSNPVRLVKDYLDGVD VAEGELVVLLENVRFNKGEKKD DETLKKYAAALCDVFVMDAFG TAHLRAGFLLTGIGKLRCSLRC AGPLLAELDALGKALKEPARP MVAIVGSKVSTKLTVLDSLK IADQLVGGGIANTFIAAQGH VGKSLYADLVDEAKRLTTC NIPVPSDVRVATEFSETAPANL KSVNDVKADEQILDIVRDLDA NVVINAVFSYVTNVWG WAF WYMVVMLFGWFWL VFGPYAK KRLGNPEPFSTASWIFMMFAL
15715	46083	A	15806	1	1359	
15716	46084	A	15807	670	1008	
15717	46085	A	15808	455	1137	GTKPRDIDHILGTFITPGMPKGG KLDVYAAPLPLKLLGRPTGE YNEEF/SLLPVVNYLKDLSNP V/RLDGVDVAEGEL/VVLENVR FNKGEKKDDE/HRAQASTHGIG K/FADVACAGPLLA/AVLDSLK /IADQLVGGGIANTFIAAQGH VGKSLYADLV/DEAKRLTTC NIPVPSD/VRVATEFSETAPATL KSVRHSDKISYISTGGGAFLEL WKVKYLPVAVMLEERG
15718	46086	A	15809	465	888	RGLVALSSERRCRLRRNHPS GTRSPDPAGAASLSRRFFYAPP GTPETGCGYSSRSQRKR/LST WRCNS*ETPKSPKACCRPARIP APRSSSVKKASACGPAAMKK RCRKASITPISKITCAIHRMRRW TCTKRAAF
15719	46087	A	15810	417	707	IQIHERSWRYLHWWSSVRRRA A*YGAPL*RDGIQRGTRRISQV YQ*SSVRQLRRDASAGSAPRV CREYAAACYLRHEHWSCDAVS PTRMLKSFV
15720	46088	B	15811	1	4350	

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15721	46089	B	15812	1	2862	
15722	46090	A	15813	1	1471	MLHSRGFLAEVFGILARHNISV DLITTSVSVALTLDITGSTSTG DTLLTQSLLMELSALCRVEVEE GLALVALIGNDLSKACGVGKE VFGVLEPFNIRMICYGASSHNL CFLVPGEDAEQDGTGTSIGAGQ KKKMYANNGAIDRKLLFEATF VTIEKCCDTNQKGGDDTHALGQ PIRGHDKSLAGSFCYACRSEEG LSQYRAYDSRQGLIAVKDTQG HETRYEYNIAGDLTAVIAPDGS RNGTQYDAWGKAVRTTQGGGL TRSMEYDAAAGRVIRLTSENGS HTTFRYDVLDRLIQETGFDGRT QRYHHDLTGKLIRSEDEGLVTH WHYDEADRLTHRTVKGETAER WQYDERGWLTDISHISEGHRV AVHYRYDEKGRLTGERQTVHH PQTEALLWQHETRHAUNAQGL ANRCIPDLSLPAVEWLTYSGYL AGMKLGDTPLVEYTRDRLHRE TLRSFGRYELTTAYTPAGQLQS QHLNSLLTYRHFANFAL
15723	46091	A	15814	1	1367	MSKLLERFRYFKQKGETFADG HGQVMHSNRDWEDSYRQRWQ FDKIVRSTHGVNCTGSCSWKIY VKNGLVTWEIQQTDYPRTRPD LPNHEPRGCPRGASYSWLYSA NRLKYPLIRKRLIELWREALKQ HSDPAADNDLIARFQSFTNQPI ANRLTGNDRARFNLTIFVNNQH ATAITTTGTFLPEWSTTFIITLIL QSKVQAIDLTKAIVTVGCNTIS TTVHEVVSASIGIATKFWQHIGP CFYVIYDVTVTIVESRTTEYSP DVTGLITRITTPDGRASAFYN NHHSQLTSATGPDGLEIRREYD EWGRLIQTAPDGDITRYRYDN PHSDLPCATEDATGSRKMTW SRYGQLLSFTDCSGYVTRYDH DRFGQVTAHVHREGLSQYRAY DSRGQLIAVKDTQGHETRYEY NAA/GDIRQCESDLQSPSCSQYR AIDGESLSETARYSVHQ

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15724	46092	A	15815	357	1733	TADSPETLRCQTSGENARGAGT VERAGKSLWRSR*SHRP*STR TGDHHCQQTNFSLFN*QHPGQH RVYGSQTAINQSLITHDPEYPEN LPAAPLVRYGWTGPRGELAVVY DRSGKQVRSFTYDDKYRGRMV AHRHTGRPEIRYRYSDDGRVTE QLNPAGLSYTYQYEKDRITITD SLDRREVLHTQGEAGLKRVRK KEHADGVSVTQSQFDAVGRRLRA QTDAAGRTTEYSPDVVTGLITR ITTPDGRASAFYYNHHNQLTSA TGPDGLRLREYDELGRLIQET APDGDITRYRYDNPHSDLPCAT EDATGSRKTMTWRSRYGQLLSF TDCSGYVTRYDHRFGQMTAV HREERLSQYRAFDRRGTVIAVK ETQGLETFEYHFVPDGVIAV KG/SRNGNSQSVGKRRSTEDIR G*TRWRGYTADRRAAKTHARV E*HLRARPRVCLFFPKQGERH
15725	46093	A	15816	1595	3228	DNNAKLFRAGQMKVLKPYVDS GKIKVVGQWVDGWLPENAL KIMENALTANNKIDAVVASN DATAGGAIQALSAQGLSGKVAI SGQDADLAGIKRIAAGTQTMT VYKPITLLANTAAEIAVELGNG QEPKADTTLNNGLKDVPSRLLT PIDVNKNNIKDTNLPAAPLVRY GWTGPRGELAVVYDRSGKQVRT FTYDDKYRGRMVAHRHTGRPE IRYRYDSDGRVTEQLNPAGLSY TYQYEKDRITITDSLDRREVLH TQGEAGLKRVRKKEHADGVS QSQFDAVGRRLRAQTDAAGRTT EYSPDVVTGLITRITTPDGRASA FYNNHHNQLTSA TGPDGLRLR REYDELGRLIQETAPDGDITRY RYDNPHSDLPCATEDATGSRKT MTWSRYGQLLSFTDCSGYVTR YDHRFGQMTAVHR/EEG/LSQ YRAYDSRGQLIAVKDTQGHET RYEYNIAGDLTA VIAPDGSRNG TQYDAWGKAVRTTQGGLTRS MEYDAAGRVIRLTSENGSHTTF RYDVLEQYCGQVIKAHAVSRF
15726	46094	A	15817	1	627	
15727	46095	A	15818	701	895	



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15728	46096	A	15819	1412	1705	LASISTSCAPPKVNCGVMAIFLASD SRLWSGLRAQATSRSTLSLM TRSGWLAIQ*NALRSWLASHE TKRPPSTLGGNTVPS*ALRLGIL ASSRILL
15729	46097	A	15820	344	547	
15730	46098	A	15821	1	1518	
15731	46099	A	15822	1693	2455	VLAAFTRSKQRYGAPRLTDELRA AQGYPFNVKTVAAASMRQGLR AKASRKFPVSYRAHGLPVSEN LLEQDFYASSPNQKWAGDITYL RTDEGWLYLAVVIDLWSRAMA LLRRKSPGNVIVHTDRGGQYCS ADYQAQLKRHNLRGMSAKG CCYDNACVESFFHSLKVECHG EHFISREIMRATVFIISNVITIGG GGTVAARGGVP*AVKSNVNDV RRNCLARSSNNGWIFPPVVVNG WRQALATIVAGICC
15732	46100	B	15823	1	1407	
15733	46101	A	15824	1	3252	
15734	46102	A	15825	1	2409	
15735	46103	B	15826	1	2802	
15736	46104	A	15827	1715	1824	
15737	46105	A	15828	410	720	PGSRAVIGWSMSPRMTAHWPA MPCRWRCGGVRTYAPEPTG*R RWLQNCACSS**LRKTSRKNR TT*RTPARSSAPPLMLKQPFTR QWPLNTPWKPPRLSPS
15738	46106	A	15829	905	1008	SCDSYRLSSRAAAVTPMRSASF RASGFLLVILFVCRVSVVGCVRV LAWSGGSVFRRGVPLAWTVLR WVRRRCGCGVGRCLSAVV YPSGIITVDSARSWRIMGRSGSP LAITVGLAGCWSQRL*TDAFS KLQGRVFTGDTICM
15739	46107	B	15830	1	3148	
15740	46108	A	15831	1896	2062	SVCYPRN*IPSG*N*PRIWSDP VQRRERAGKKWLHENPGWRK **PDYHYRSEAD

SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /=possible nucleotide deletion, v=possible nucleotide insertion)
15741	46109	A	15832	1	1456	MSTEIARLKRQLADGMKSWLS SKRPRHSTRAPEMKYVFIEKHQ AEFASKQCAACSGWPATAGNV VSAADKDKHASAVPPHCDSVV LAAFTRSKQRLPLNVKTVAASL RRQGLRARPPGSSARSATAHTA CLVRKSVGAGFLRQWPPEPKWA GDITYLRTDEGWLYLAVVIDL WSRAVIGWSMSPRMTAQLACD ALQMALWRRKKPRNVIVHTDR GGQFGDRWK/ALANALNIPLDQ LSARISANPKGGFIYLAREVNP DMADYIKKLLPGIHVREESRR YYPSGEVTAHLIGFTNVDSQGI EGVEKSFDKWLGTGQGERIVRK DRYGRVIEDISSDQQAHLNLA LSIDERLQALVYRELNNVAFN KAESGSAVLVDVNTGEVLAMA NSPSYNPNNLSGTPKEAMRNRT ITDVFEFGSTVKPMVVM TALQR GVVRENSVLNTIPYRINGHEIKD VARITTEEDFNHASAARFVCAA AERALQNH
15742	46110	A	15833	2	929	
15743	46111	A	15834	1	472	
15744	46112	A	15835	1	513	
15745	46113	A	15836	1	254	CDNLKTCHTSHGVSMAETAVI NHKKRKNSPRIVQSNDLTGAA YLSLRDQKRV/LRYEPVSQFRLS ETQKHQSVCFAFIRIPVSVS

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15746	46114	A	15837	145	1929	VSGVIEIADGSRRRKAAALTES DYRVLVGELDDEQMAALSRLG NDYRPTSA YERGQRYASRLQN EFAGNISALADAECNLTCTHT SHGVSMAETA VINHKRRKNSP RIVQNSNDL TEAAYSLSRDQKRM LYLFPVDQIRKSDGTLQEHDGIC EIHVAKYAEIFGLTSAEASKDIR QALKSFAGKEVVFYRPEEDAG DEKGYESFPWFIR/PSRGLYSV HINPYLIPFFIG/LQNRFTQRLS ETKEITNPMRLYESLCQYRK PDGSGIVSLKIDWIIERYQLPQS YQRMPPDFRRRLQGFCFRFNH IHQTGFSPAGANQRGPLAATLSG PGGEGQSAVARLTGEKKNHPPG AQYANRLSPRVGRFINAAGTTG FPTWKAGSERNAINDDVYAIK PTCWPGLDIIPSCALHRIETEL MGKFDEGKLPTDPLMLRLAIE TVAHDYDVIVIDSA PNLGIGTIN VVCAADVLIVPTPAELFDYTS LQFFDMLRDLKNVDLKGNSN GSQSPWMEEQIRDAWGSMVLK NVVRETDEVGKGQIRMRVTVE QAIDQRSSTGAWRNALSIWEPE CNEISIGVSLDQDGGSNSVLK
15747	46115	B	15838	1	1734	
15748	46116	A	15839	1	971	
15749	46117	A	15840	1	1143	
15750	46118	A	15841	1	556	
15751	46119	B	15842	8	1000	
15752	46120	A	15843	1	1169	MLTLILLDLQFMAQLAGYQMS FNSTKSKQTKNNFAVGYRTGD FQLHTNVNDGA EFGGSVYQKV CEELDALINLAWTSSTSCTRFG LAAKFQLKPIAFISTKVNHWLT GVSYPPLLEAGVKLNLSALCDN LKTCHTSHGVSMAETA VINHK KRKNSPRIVQNSNDL TEAAYSLS RDQKRMLYLFVDQIRKSDGTL QEHDGICEIHVAKYAEIFGLTSA EASKDIRQALKSFAGKEVVFYR PEEDAGDEKGYESFPWFIRAH SPSRGLYSVINPYLIPFFIGLQN RFTQRLSETKEITNPMARLY ESLCQYRKPDGSGIVSLKIDWII ERYQLPQ/TYQRMPPDFRRRLQ EEFESLNRQITGSEIVAMINSLST KKSPGPDGFTA EAFYQ
15753	46121	A	15844	1	1509	

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15754	46122	A	15845	1	558	
15755	46123	A	15846	1	1773	
15756	46124	A	15847	1	2256	
15757	46125	A	15848	1	812	MEVLASWATFTLGQTEQHVD WISAGAAPQGPVVKQLPSPVPPT EQLEQEKPTVIGSAPSTPNKLLL SHSNCQLPRPLRSITNISACFSLE LAIDHRGFPHSPGARSLYSNSVVF GTYQLCDLCDNLKTCHTSHGS VMAETAVINHKKRKN SPLIVQS NDLTEAAYSLSRDQKRMLYLF VDQIRKSDGTLQEHGICEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVYRPEEDAGDEK GYESFPWFIKRSPE*RRGKFPFT QMGQD
15758	46126	A	15849	1	1773	
15759	46127	B	15850	1	1755	
15760	46128	A	15851	1	726	MPASGNENDLNMPSGTIEIFVR CYVEVERIMSAWTEQPNHRT MMWSVLLQPCDNLKTCHTSHG SVMAETAVINHKKRKN SPLIVQ SNDLTEAAYSLSRDQKRMLYLF FVDQIRKSDGTLQEHGICEIHV AKYAEIFGLTSAEASKDIRQAL KSFAGKEVVYRPEEDAGDEK GYESFPWFIKRAHSPSRG/LYSV HINPYLIPFFIGLQNRFTQRLSE TKEITNPYAMRLYESLCQYRKS
15761	46129	B	15852	356	671	
15762	46130	A	15853	1	2121	
15763	46131	B	15854	721	2739	
15764	46132	A	15855	1	5828	MQEQQQASSLIRSGNGRLPGSG AQRTPCHIRRDGQRRVCD DCK QQWWKAKYNIPSGLHACTATL EETHILDSGAHVQVYFKGQLH VMRVPC TDYFDTKNPNLSHL HGSVMAETAVINHKKRKN SPLI VQSNLTEAAYSLSRDQKRML YLFVDQIRKSDGTLQEHGICEI HVAKYAEIFGLTSAEASKDIRQ ALKSFAGKEVVYRPEEDAGD EKGYESFPWFIKRAHSPSRGLY SVHINPYLIPFFIGLQN
15765	46133	B	15856	537	1318	
15766	46134	B	15857	1	411	
15767	46135	A	15858	1	1356	

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15768	46136	A	15859	1	1215	MPYDRPFTVMAAFPLCPACDK EYRDPLDRRFHAQPVACPECGP HLEWLKMGKIVAIKGGGFHLA CDARNSNAVATLRARKHRPAK PLAVMLPVADGLPDAARQLLT TPAAPVLVDKKYVPELDDIA PDLNEVGVMPLPANPLQHLLQ ELQCPLVMTSGNLGKPPAISN EQALADLQGIADGFLIHRDIV QRMDDSVVREIRRNAAPF/AGA VLSQHLGDLSDDGIMQWRER YSLMQNIYDFTQYVVDHAHP GYVSSQWAREMNLPTQTVLHH HAHAACLAEHQWPLDGGDVI ALTLDGIAQPDERSSEDVDRA HQRGHERDRRRRSGTSHLTR VDLKEDGKGLKIVRQSLPYGTA SGTHGLYFCAYCARLHNIEQQL LSMFGDTGKRDAMLRSPNR
15769	46137	B	15860	74	2050	
15770	46138	A	15861	2	703	LQARFPLSWRNPITFACYAGL FCLSAIIP/DHLCPVSVPRFAA GPRHRRHLLVLRGCGLRH/TK RPGPGPGPARALAIWPPDGC* RCRRPSPASSLRSSATPTCTST QPALEWCVAVYAIICFILAAIAIL LNLGECTNVLPIPFPSFLSALAL LSVLLYATLVLPYQFDEK YGGQPRSRDVSCSRRAHYV GAWDRRLAEAILTAIINLLTYVA DLMHSAHLDFSKV
15771	46139	A	15862	1	849	MAQPLAKQWTPVSPRALLVSI SMPPRPAADVT/CRHRNCTLRE LLYGFAAAAQQLNLHGDVCN DGDG/VEVRLREDPETFLVQLY/ QHCPPLARTGGTMNTQIVPDA ATCPASLSEMNTPGERRYYPF INCTHYGPSFPIIRAMPYDRPFT VMAAFPLCPAC/DKEYRDPLDR RFHAQPVACPECGPHLE/WGIG GFHLAC/DARNSNAVATLRARK H/RPAKPLAVMLPVADGLPD/A ARQLLTTPAGAGLWLGNGYP RAPDNANSTAMSCASHASF GGHPRGR
15772	46140	B	15863	1	2688	
15773	46141	A	15864	1	1578	

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15774	46142	A	15865	1	877	MQAAHRLRPAYRIKTKGKPPAL ADYHPAYQEMLSRKQDRVIDQ IDFGIKDTVEILHMGQIQSMGREG FALSRLFSIHGHNVHGNESPEM GPERRSGFYDEWSPERIQQYYRP AREQLMNELVQILKNTRQHLM TGVSHMIPFVSSGGILLAVSVM LYGKGAVPDADPNLKKLFD IGVAGLTLMPFLAAYIGYSIA ERSALAPCAIGAVVGNSTFGAGF FGALIDAFPLSEEINPALPEAK VMACLEAVARQDNVDSPPQLP PTPLFASRPITRLKSWWAPGGE VESGTHKK
15775	46143	A	15866	3	423	
15776	46144	A	15867	633	771	NNRSHPALCTNRPPRTRLVFYP LLAPNA*LAALQKGWAYGAGH NA
15777	46145	A	15868	1	4014	
15778	46146	A	15869	1	180	SGHPFIPLKDLTQIAIGDVFNNN LILWANREIHSVP*RY*HDANI QCFVVISSFVRSQQ
15779	46147	A	15870	815	1905	IFQEHIMDHLPMKFGPLAGLR VVFSEM/WRAEVIWIENVAWA DTIRVQPNYPQLSRRNLHALSL NIFKDEGREAFKLMMETTDIFIE ASKGPAFARRGITDEVLWEDKP KLVIHLSGFAHQVSQISTHQG SSNWVSPDQLQCNQTQNSPKQ LFSTHMCQCRPNSTTNSRQFQS NPVNHALNHQSKPHHPLVYVYQ HKAKRAHRAKSITASRKQATTF QQVGAPAGGHTHTSSSHPQTT KALEQVKHLTTQAILSKAKPQ ATSPIPRDTGPIRGRQFHALNPS TTVIGQPANQRIGQHGHQPKF KTPFWPQPKKVPNRQCTSKTY SNGEQNIPQTYAIRTKNRSTYPR NLKQQPLNPGKAKT
15780	46148	A	15871	1	361	QTTGISFGGRGAGPGVPTRTQ/ CLRCHGGRHG/HPSHLCKPNKG DPRKIRLKMSWR*PWFAIGPRD WSSSRPKPTSPRGSCRSFIEASK MSAPVVVSTKTHSSRSMLSFSL MEDFVTALSIL
15781	46149	A	15872	1	447	

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15782	46150	A	15873	1	1424	MLLEQLSQHKLDMIISDCPIDST QQEGLFSVRIGECGVSWFCTNP PPEKFPFACLEERRLLIPGRSSM LGRKLLNWFSQGLNVEILGEF DDAALMKAFAGMHNNAIFVAPT LYAYDFYADKTVVEIGRVENV MEEYHAIFAERMIQHPAVQRIC NTDYSALFSPAKLRALYHPAS TELHPACGKDFRQLYRRIQNQI QRHALWHKIFDVEIPHPILIIAR VSANMPHTGCRJAEWPGKVVE AILRLTNDAPLEYLPIGNHKS MRSEGMNPHYQRQFMELALS VLKCGEFTLNRGRKSPYFFNAG LFNTGRDLALLARFYAALVDS GIEFDLLAPAYKGIPIATTAV ALAEHHDLDLPYCFNRKEAKD HGEENLVGSALQGRVMLVD DVITAGTAIRESMEIIQANGATL AGVLISLDRQERGR*CDHRRNG DSRVDG DYSGQWRD ACWRVD FARSSGTRARRDFGDSGS*A*L QLQSDLYHHPERPDCLPGREAG NGGTSGGG
15783	46151	B	15874	1	1086	
15784	46152	A	15875	484	729	CTQFRKTCFTCKASNGFCFATS CNLIYTSEIIICRGPTG*HNLIASL LQRIDNLRKFIVPTLKYLRTRCR LDDNIMIFYAQGI
15785	46153	A	15876	1717	1971	PANAWAEMWEYSAWQRRMYS MG*TSKVVVHPGATDRW*NTN GCYRIFWIAAPFVPAAVIHGNIL PTHGACVHKFGGRAPAGAAVE
15786	46154	B	15877	1	765	
15787	46155	A	15878	103	823	VPACAGLKKEARSLASPPRLL NTKLQASCRA LFSPPIQSRQTTG ISFQGRGGAGPGVPTRTQ/CLRC HGGRHG/HPSHLCKPNKGDPRK IRLKM SWR*PWFAIGPRDWSSS RPRPTSPRGSCRSFIEASKMSAP VWVSTKTHSSRSMLSFSLMEM PARMPITSSMPSTPLRQGSVKFE DFVTALSILLRGTVHEKLRWTF NLYDINKDGYINQEEMMDIVK AIYDMMGKYTYPVLKEDTPRQ

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15788	46156	A	15879	1	2926	MVKDASQSASLGLDAFLPAS GVQYTHERSPDSPKSEQECP VVNEDTFKQIYAQFFPHGGLMS ENGTGKASVFGSTGSGALLLE EGERRRQPLIEMRKPPHVLIN YQAKVGGNSIPSPSLCKPAFPPL PSWAVDLASARQKEDASRS LQNK EEDFYTSQPGFPALALGCCL RVNLLGHRGISAGSSYRPITST PCHLCKLGQEVFAKPLNLQDQ CQQLVMQVLKVLNCLNDFD IGSSADESADDLCTV
15789	46157	A	15880	1	1521	MDKFLDTYTLPRLNQEEVESLN RPITGSEIVAIINSLPTKSPGPD GFTAEFYQRYKEELVPFLKLF QSIEKEGILPNSFYEASILIPKPG RDTTKKENFRPISLMNIDAKILY KILAKRIQQHIKKLIHHDQVGFI PGMQGWFNIRKSINVIQHINRA KDKNHMIIISIDA EKAFDKIQPP MLKTLNKLQANLLKLSNFNKV SGYKINVQKSQAFLYTSNRQTE SQIMSELPFTIASKRIKYLGIQLT RDVKDLFKENYKPLLKEIKEDT NKWKINIPCSWVGRINIVKMAIL PKVIYRFNAIPIKLPMTFFTELE KTTLKFIWNQKRAHIAKSILSQ KNKAGGITLPDFKLYYKATVT KTAWYCYQNRHIDQWNR/PSEI TPHIYNYLIF
15790	46158	A	15881	1	1182	
15791	46159	A	15882	1	690	
15792	46160	B	15883	1	458	
15793	46161	A	15884	1	719	
15794	46162	B	15885	1	3552	
15795	46163	A	15886	1	321	
15796	46164	A	15887	1	362	
15797	46165	B	15888	1	489	
15798	46166	B	15889	1	1660	



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15799	46167	A	15890	1	1593	MGKKQNRKRTGNSKKQSTSPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSLEQEDIQTKGK EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRLSR SRCDQLEERVVSAMEDEMNMK REGKFREKRJRNEQSLQEIWD YVKRPNLHLMGVPESDGENGS KLENTLQDIHQENFPNARINKI DRPLARLIKKEKNQIDTIKN DKGDITNPTIEJTIREYYKHL YANKLENLEEMDTFLDTYTLPR LNQEEVESLNRPTGAIEIVAINS LPTKKSPGPDGSAIEFYQRYKE E/PADKQLQQSLSIQNQCTKITSI LIHQQQTNREPNE*TPHNCFK ENKIPRNPTYKGCEGLLPGLQ TTAQGNKRGYKQTEHSMLM GRKNQYRENGHTAQGNF*IQ HPHQATNAFLHRIGKNYFKVH MEPKKSPHRQVNPKEQSWR HHTT*LQTLQGYSNQNSMVLV PKQGYRSMQNRALRNNAAYL QLSDL*QT*EKHAMGK/EPPI**
15800	46168	A	15891	1	1177	
15801	46169	A	15892	1	3663	
15802	46170	A	15893	1	1995	
15803	46171	A	15894	1	4191	MVKGSIQEEELTILNTYAAHTG APRLIKQVLSDLQRDLDSHTIIM GDFNTPLSTLDRSTRQKVNKDT QELKSALHQADLTDIYRTLHIK STEYFFSAPHHIYSKIDHILGSK ALLSKCKRTEITNYLSDHSAIK LELWIKNLTONHSTTWELNNLL LNDYVWHNEMKAEIKMFFETN ENKDDTTYHNLWDTFKAVCRGK FIPLNAHKRKQERSKIDTLTSQL KELEKQEQTHSKASRRQETKIR AELKEIETQ

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15804	46172	A	15895	1	1659	MGDFNTPLSTLDRSTRQKVNK DTQELNSALHQADLIDYRSLH AKSTEYTFSSAPHHTYSKIDHIL GSKALLSKCKRTEIITNYLSDHS AIKLELRKLNLTQNRSTTWKLN NLLNDYWIHDEMKAIEKMFF ETNENKDTTYQNLWDAFKATA SKTNKEKEKNQIDTIKNDKGGDI TTDPTEIQTIREYYKHLYANK LENLEEMDKFLDITYTLPRLNQE EVESLNRPIITGAEIVAIINSLPTK KSPGPDGFTA NRAKDKNHMIIISIDA EKAFDKI QQPFMLKTLNKLIGIDGTYFKIIR AIYDKPTANILNGQKLEAFPLK TGTRQGCPLSPLFNIVLEVLR AIRQEKEIKGIQLGKEEVKLSLF ADDMTYYLENPIVSAQNLLKLI SNFSKVSQYKINVQKQSAFLYT NNRQTESQIMSELPFTIASKRIK YLGQLTRDVKDLFKENYKPLL KEIKEDTNKWKNNPCSWVGRIN IMKMAILPKVIYRFNAIPKLP TFFTELEKTTLKFIVNQKIRARI AKAILSQKNEAGGITLP
15805	46173	A	15896	1	1740	
15806	46174	A	15897	1	880	
15807	46175	A	15898	1	2777	MGKKQNRKTGNSKKQSTPPP KERSSSPAMEQSWMENDFVEL REEGFRRSNYSELQEDIQTKG EVENFEKNLEECMTRITNTEKC LKELMELKTKARELHEECRSLR SRCDQLEERVSAEMEDEMNEK REGKFREKRJKRNEQSLQEIWD YVKRPNLHLMGVPESDGENGS KLENTLQDIHQENFPNLASTLSD HSGIKLEINSKRNPQNHAHTWK LSNLLNAHWVNNEIKMKVKKN FFELNDNSDTIYQNFSD
15808	46176	A	15899	326	3096	QTERSTPKTHLYVTIHKDQK*I KPQRRGKNRGEKLETLSRAP VLLQRNAVQQQQRNKAAGRRM TLTS*EKKSSDNQITPSYRRKF KPMACKLKT/LRKKLDECITRIT NAEKCLMELMELKAKARELRE ECKSLRSQCNOLEER/INKIDRP LARLIKRRKREKNQIDAIDKGD ITTDPTIQTIREYYKHLYANK LENLEEMDKFLDITYTLPRLNQE EVESLNRPIITGAEIVAIINSLPTK KSPGPDGFTA

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15809	46177	A	15900	1	2047	MENDFEELREEGFRSSNYSEL EDIQTKGKEVENFEKNLEECITR ITNTQKCLKELMELKTKARELR EECRSLRSRCDQLEERVVSAMED EMNEMKREGKFRKRIQRNEQ SLQEIWDYVVKRPNLRLIGVPET LHPRDEAHLKLNLDIAIKNDKGD ITTDPTETQTTIREYVKHLYANK LENLEETDKFLDTYTLPRLNQE EVESLNRPTGSEIVAIHNSLPTK KSPGPDGFTAIFYQRYKEEL/PD KQLQQSLRIQNQCTKITSILHQ QQTNRPNHE*TPIHNCFKENKI PRNPTYKGCEGLQGLQTTAQ GNKRGYKQMEEHSMMLGRKN QYHENGHTAQGNLQIQCHPH* ATNAFLHRJGKNYFKVHMEPK KSPHRQVNPKEQSWRHHTT *LQTLQGSYNQNSMVLVPKQR YRSMQNRALRNAAAYLQLSD L*QT*EKQEMGKGFP**MVLG KLASHIM*KAETGSLPYTYLYKN QFKMD*RLKR*T*NHKNPRRK RHYHSGHRHGQGLHV*NTKSN GNKSN*QMGSN*TKELLHSK KKKNY*QTEQATCKMGENFHN LLI*QRANIQLQ*TQTNLQEK KQPHQKVGKGHEQTLLKRRHL CSQKINHEKMTITGHQRNAN QNHNEIPSHAS*NGNH*KVRKQ VLERMCRNRNTFTLLVGL*TSS
15810	46178	A	15901	1	3285	
15811	46179	A	15902	1	3681	

SEQ ID NO:	SEQ ID NO: of peptide sequence	Met hod	SEQ ID NO: in USSN 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, *=Stop codon, /possible nucleotide deletion, \possible nucleotide insertion)
15812	46180	A	15903	1	1854	MKAIEKTFETNENKDDTYQNL WDAFKAVCRGKFTALNAHKR KQERSKIDTLTSQLEKEKQE THSKASRRQEITKIRAELEKET QKALQKINESRWCFEKIHKID RPLARLIKKEKREKNQIDAINKD KGDITDDPTEIQTITREYYKHL ANKLENLEEMDKFLDTYTLPR NQEEVESLNRPIGTSEIVAINSL PTKNSPGPDGFTAIFYQRYKEE/ RENKIPRNPTYKGCCEGFLQGE QTTAQGNKRGYKQMEHSMML MGRKNQYRENGHTAQGNLQIQ CHIPQATNDFLHRIKGNFYKV HMEPKKSPHRQVNPKEQSW RHHTT*LQTLQGYSNQNSMVL VPKQRYRSTEQNRALRNATY LQLSDL*QT*EKQAMEKGFP** MVLGKLASHM*KAETGSLPYT LYKNQFKMD*RLKR*T*NHKN PRRKPRHYHSGHRHGGQLHV* NTKSNNGKSN*QMGSN*TKE LLHSKRNYHQSEQATYKMGEN FRNLLI*QRANIQNLQ*TQTNLQ EKNKPPHQKVDEGHEQTLKKR RHLCSQKTHEKMLIITGHQRNA NQNHNEIPSHTS*NGNH*KVRK QQVLERMWRNRNTFTLLVGL* TSSTIVEVSVV
15813	46181	B	15904	1	2718	
15814	46182	A	15905	1896	5031	TWKGTTSTSRCKIMPKYRSTRQ KVNKDQELNSALHQADLIDY RTLHTKSTEYTFSSAPHHTYSK TDHIVGSKALLSKCKRTEIITNY LSDHSAIKLELRKNPTQSRSTT WKLNNLLNDYVWHNEMKAE IKMFFETNENKDDTYQNLWDT FKAVCRGKFIALYAHKRKQERS KIDTLTSQLEKEKQAQTHSKA SRQEITKIRAELEKETQKTLQ KINESRSWFFERJNKIDRPLAR LIKKEKREKNQ
15815	46183	A	15906	4	133	

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15816	46184	A	15907	95	1875	PFFGRKNYRLPSKNMPRRCRSS PLPCSMKMTI*CVLTSTATITRL PAASAQW*LDGRTLVTKNSTR YLHTLHTMGPAPEPNLTILWSE ELPIAFKKYAAQVSIVTSSLQYE NDDLMRITDFNSDDYAIACCVS PMVIGKMQQFFGARANLAKTL LYAINGGVDEKLKIQVGPKTAP LMDDVLDYDKVMDSLDHFMD WLAQYISALNIIHYMHDKYSY EASLMALHDDRVDYRTMACGIA GLSVATDSLSAIKYARVKPIRD ENGLAKDIQGTTEPQFRNSHSR TSGTVTLYLPVSTFVGTGFFIRV DPPKKPLKIRKIEFVEIYEPFSEG QAKAQADRCLSCGNPYCEWKC PVHNYIPNWLKLANEGRIFEAA ELSHQNTNLPVCGRVCPQDRL CEGSCTLNDEFGAVTIGNIERYI NDKAFEMGWRPDMSGVKQTG KKVAIIGAGPAGLACADVLRN GVKAVVFDRHPEIGLLTFGIP AFKLEKEVMTRRREIFTGMGIE FKLNTEVGRDPRESSFYEEKQL IARKALPFIDNKTMAADSSST VMELKLLQDRSGLTLLTNSAE AIHVLAQSEIKVVSTGGELNKN TLSLQGRITKEIIRRYHVDMWL PDELRVKEGFSPTDLKLEAKG QKVALKEAMGSTQSIMVGPDE RRTGFSYLRQNLMIRVKF
15817	46185	B	15908	271	2118	
15818	46186	A	15909	597	743	
15819	46187	A	15910	573	1066	IRAQNGSPWLSFLVDSVCVLKA CVDVAVMRAGICSVSYWQYQS GVGANSSALSGFSQGAIMMLES IKAEPGLASRVIAFNTRYSSLE TASTATTIHLHGGEDPVIDLAH AVAAQEALISAGGDVTLDIVED LGHAIDNRSMQFALDHLRYTIP KHYFDEALSG
15820	46188	A	15911	1	2652	
15821	46189	B	15912	1	1494	

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15822	46190	A	15913	1	1733	MGVGSKGITFGSTTTQHGSFIPY LTGYLTYYTHGHSANPKPAVG GQILTAVLPAMDGYVSRIMTM NTQLTTLPLTTATHTARQTASLIS VIGRQLRCFRHSSQPSVLTHVR DDSTQYAQLDMANGQPTSHGY EHWAQLMYATDRRYGRHMSD AARQGCSDTGIVKFSHPPEMS VRKFTSARSGCVRSGAWNVTV SAQTRVSQALTTLRRRVHKSMP NALTVPVMAEAPSQAHRGRQ TRRLSLHQLRLLLTTPDVWGV IRRCVPVVWGCLEHLDTAGFP PNSHTMPLPIGWNDTRKRLHHS AHNGQHDVAQGRRLVGRKVG LTHPKVQQQLGVDGLSLFCVY LVWYIGLHLRRFPRLAYTICPSL VYGADLRVIVRLFSDSHHMAF GNPQPKHLDCQEYALFLLNSM PDNTAEHYRNKIAIYLHCLPED DRIKAIINEIRMAIHQVSPFREEP VDCVLVWKYSQMLPNDYNPN NVAPPEKKLLQKSIEDGTQPI VVTHTDKNAMEIVDGFHRHEI GKG/SHASLKLRLGYLPVTCL EGTRNQRIATISHNRARGRH ITAMSEVTPELRLLGW
15823	46191	B	15914	1	273	
15824	46192	B	15915	169	292	
15825	46193	A	15916	2	844	KGGVYKTSVSVHLAQDLALKG LRCLLWKGTPPQGTSPMVSRE GDPALHN*CKTQLLCLSYLGEK DDVTYAIKPTCWPLDIIPFLA LDRIETELMGKFDEGKLPTDPH LMRLAIETVAHDYDVIVIDS HNRGNIGTINVCAADVLIPTP VEMFDYTSALQFFDMLRDLLK NADLKGFEPPVRIIVTKYSNSN GSQFPWMEPIPECLPKHGSKK NNVRNANEVKGQIRMRTVFE QAIDQRSSTGAWRNALSWEV CNEIFDRLIKPRWEIR

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15826	46194	A	15917	1	681	MSIGGSGNSLCTRPKQQGGGTG LKQYEVSVPGTLRCLACPQACT LRKEHWIHFAPKSNYDSCR YIE EYFAYEASFMSVQLTELVIKSL EDLASLFMIHKKNPVSIPHTVW YADDIRRGEEAADVLGLTLYE LMLRAGEAAFQVCRSAYPDTR HWLVLCGHGNGGDBGYVVAR LAKAVGIDDTLLAQESDKPLPE EAPLAHEAWWNAGGEIHALNI GWPESEHLIV
15827	46195	A	15918	3	774	VKCEKCLFLPLGQFSQFTQKLR WIFLDPLFIRKGGVTPATAFAM HLHEYISQGLSILGALDIEGSS DKQRTITITATPSVGALVLPVIY RAIKTHYPQLLRNPPISDAENQ LSQFQTDLIIDNMFCTNRTVQH HGLFAANMVLICREGNPLLSLE DDREAIANAHHVLLPPEQNFSS GLRQRVQEMFPGRQINFYSYNI LTIAALVANSMDLAIIPSRLYNL FSRCWPLEKLPHPSLNEEQIDFS IHYNKFSLR
15828	46196	A	15919	1	741	MITVLLIATQFAPYFTEMALKG GFSGFAGESAQISALSVGNMFGW SISELMSLGIGVVVAVGIVASV VLFLRVLSMSWLKEVIGTEKAV IAMCHLRALPGDPSFDAQLGM NWVIDKAWDDLMLQNGGVD AVMFSNEFSLPYLTGKLVPAFLV AREILVRGMYVRGRKMVAFLV CCVALAISAMYELIEWWAALA MGQGADDFLGTQGDQWDTQS/ GYVLRAAWRINDGDIPRSLSLP PATALWLDNRI
15829	46197	A	15920	1	678	MCHLRALPGDPSFDAQLGMN WVIDKAWDDLMLQNGGVDA VMFSNEFSLPYLTQVRPETTAA MARIIGQLMSDIRPFGVNVLW DPVASFDLAMATGAKFIREIFT GAYASDFGVWDTNVGETIRHQ HRIGAGEVKTLFNIVPEAAVYL GNRDICSIKSTVFNNHPDALC VSGLTAGIRTDALLKRVKETV PDTVVLANTGVCLENVEEQLSI ADGCVTATTFF
15830	46198	A	15921	624	734	TRTLRQIVDSRAIPFT*ERLHSP NQPKNPYPPEV

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15831	46199	A	15922	1	1923	MPFALGGGDLEETPRSDPGVTF ACSLAQPMRKPTGVLGNRFHD TQEPVPVGGPGLRGFHLWHAPP LDRPAQFAAIRTDSELMSSANP KSFTASPLMTFTPARSRINRYR YPAGTRAKGENEAAFAARIHSF LPYRRPVFWATTMGAKSAIK PMSTAVTRDASVFQTEYERSRF GARPWPLRKAPEAMGRGFHEI GVQCEAPTANTLEPSRRGAVM AAGLSFQRTPWREVLGRGEGSF LGAGSDPVLRLASLASTPFPGE KHVGSWGMGRIVLRSFALASSS LRHSGERIPGTVLPDDIFACHQ RNYAEVFGIWRITSSVLQPIEPV EPKCISQFLYIVLERRSSSLISLS FNSASLCSRHDARYVLQHALF CFTTNDFGQIFTTFFVSGSGTR MSLPAEFGVIAQSDQKVLFIDA DLAVVIRITCLPSTSMWLKEVI GTEKAVI/AMCHLRALPGDPFS DAQ/LGMNWVIDKA WDDLMA LKMVRPETTAAMARI/IGQLMS DIRIPFGVNV/LWDPVASFDLA MATGAK/FIREIFTGAYASDFGV /WDTNVARSRRIRASTVFRLAQ RCQPDASEYGFMRMIARVFVDVR GDQNSEASLRVSGSIGPRTCAP VAVQSRFRFRLDRSDDVKRF QADTDSLVLH
15832	46200	A	15923	480	900	KTRYSCRGETWSNPQSSQLSAL IAAVRHPATSNVAVCRSARSCCIL RALRAIQHTGCSAGNVAPFW CQFAPCWRKPLKIEESDSVFM VIKESLWQELADITDKTQLEWR EVFQDLNHHGVVYHSGEVVGLG NLVCEKCHFH
15833	46201	A	15924	1	431	SKVFAVAGCVLMTTTPDSCN SWQKCRNKTMNKKIHSALLV NLGIYGVAAQAEPTDQAPGVS TITADEIRKNPVARVDVSKIIRT PGVNLTGNTSGQRGNRQIDI RGMGPENTLILIDGKPVSSRNS VRQGYRLECGDG
15834	46202	B	15925	1	1352	



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15835	46203	A	15926	31	546	CYCLFVSFSPNRPLCCRSAGVC QRYTPDPFCLGITSRGCRRAKIT ACSFLWKHLHPRGALARCQPELS CWRCLSTLLEGVSPSGGTGVR DPYEEAVCLAEKCCAGRSA VLFRAGRQGRSLSLKLPQLPF SPCVLCLSKLVPVSPNSTRTSKL LSIPYSRGPALLEVLS
15836	46204	A	15927	2	479	
15837	46205	A	15928	1082	1386	ADPFQEREAEKYANPIPSREFIL EHLTKREKPARSDELA VELHIE GEEQLEGLRR/RQCYALPERLD LVKGTVIGHRDGYGFLRVEGR KDDL YLS/SEQMKT C
15838	46206	A	15929	3	401	
15839	46207	B	15930	1	3675	
15840	46208	A	15931	1749	1941	SQIPTSEAQVMSNLMGTNGVLR PARAYRNEAVLS*ALVSAMYS QTFRNASFGVPQMFSTTSGV
15841	46209	A	15932	5	1465	KRSTTAQIRWISPLTSLKPRSKR QSKSCATKPKK WYVAAPCCWC SPTGISLKTRLPVPAPMAVGAIQ TRLVDQSLRCDANIIIVETASAR DPHHFAVLLGFGATAIYPYLY ETLGR LVDTHAIAKDYRTVML NYRNGINKGLYKIMSKMGISTI ASYRCSKLFEAVGLHDDVVG CFQGA VSRIGGASFEDFQQDLL NLSKRA WWRCLSATIGCCDC TRGYLGARITGQISSITVWGV IPVVGLCHGWFWFSPTLYVDS WNP HHAPFFSAVGSSIAMTLW AFLGLESACANTDVVENPERN VPIAVLGGTLGAAVIYVSTNVI AGIVPNMELANSTAPFGLAFAQ MFTPEVGVK VIMALMEMSCAGS ILGGKFTIAQVFKSSSDEGYFLT IFSRVTKVDA PVQGM LTI V I I Q S ELALMTISP SLNSQLKEMVNLA VVTNIIPYILSMAALV I I Q K V A N VPPSKAKVANFVAVFGARNSF
15842	46210	A	15933	1	3666	

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15843	46211	A	15934	979	1626	FSATITPPFIALQVRVRFHPLDAL LLFVISLWLQLGLPDELSRFTPF CLALPIIALAWHYGWQGALIAI LMNAIALIASQTGLLLGAGIQ LRELNQLSQKELARNQHLEAERL LETEESVRRDVARELHDDIGQT ITAIRTQAGIVQRPAGAGHPLTDA GNGAGRARVYQPSRMANN*IS VKRKVVVEHRCFVDFTFNDDG AVNVDRRAVRGVFIAAS
15844	46212	C	15935	1	666	
15845	46213	A	15936	1	1137	MGKFGHTEIGEVDVRDWSDAL QAKELQKLPGHSRKLEDPPPTSL FMLLNPHSDQFSSNAHHHLHA TAIDDDYTDPTKSTYALGLNWS NSILGGFNISGYKTYSYDGDND SSNLNINWNKAFKHATVSVNVW QHQLSASENNEDDGLFYVNIS IPFGRSNTATLYTRHDDHKTHY GTGVMGVVSDEMSYYVNAER DHDEPTLPAQNKAQEVLLDVV LDEAKIGVASMLGSRVRVKTW SWFADDKQEIQRGGFAGWLTD GTPLWVTGSGTSKTVLTRYAT VLNRVLVPVPTQVASGQCVEVE LFARYPLKKITAESKSTTAVNPG VLNGRYRVFTFTNGNHITFVSHG ETTLSEKGLKLQSHLDREEY VARVLDREAKISTPP
15846	46214	A	15937	323	695	FTGPRRSLEIEVAELKQRDLSDL AIGAGGSVCWTLQGAWSPTRA KAGELKTQLATAASLR/MDKH RSNSVGPDLFTLLDDYLHV VDTALWLSGGKASLDGGTLLT NDAGEMLFAEHFASAGPL
15847	46215	A	15938	1	235	
15848	46216	A	15939	98	593	MSKVRLMRNLSAPPNAYAKG ESKPGIMSGWVF*AEWAYLITG *AKKKVYGSS/ARIHLRALRY SNWRQYFAGYTFGRQYWSPE DDHLPLLREFLARHEYMQKYL LGTESGIQGEELGASDGKPEEV EWQTAIEGKLDLLVTLDFRM SSTCLFSDIVLPTAT
15849	46217	A	15940	367	677	LSSCLRATQSAAPVRNWKARFL RCTVWVWQKRSSTGRNMYLPV RPTILKLRPVHTVW*LSGASL RNWVHCCTRKKKVKCSSAVA* RKRNICPMKLHVSSTRK

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15850	46218	A	15941	1	921	MEMSSLEFLHSCSHLKCHLLY YIASAYNYDWYTPAKLSFISE GEIKYFTDKQMLRDFVTTRPAL KEL.LKEAVNMERRNRWVDIGP GTELDCISQAYAQFVASTAECC GEGGIKAWDYVRMGFLSRMG VLNNWLTRRRKLLWSARSRIH LRALRYYSNWRQYFAGYTFGR QYWQSPEDDHLPLREFLARYE RPMKKLAGRSSIILAFRGHDQ RDYEFPSKALNIN*LRWALAS VK*TTACATGVFPVSVTGARRF
15851	46219	A	15942	531	637	SIFARLNASRRCT*SYALLVLR LPIIQITAKGIL
15852	46220	B	15943	120	881	
15853	46221	A	15944	1	1583	MADRVDSKCSRSRPGAVAHNY NPSTLGGRGGRITFWLLSANPSI NRGTLEKESRTVAQRLSVLHGI NAPEFFDKAVFSSLVLTLRDEG YISDSGDAEPAETMKVYQLLAE LITSDLMIFNISATVLYITAFIAC SAAVDLTSLRGTRPYNQRAAA SKEIEDLKKKLTGEEISGCDVS GSDGDDNEEGKIGEDEEKRNT GGNKVFPERTVETPATADAER KALETKLDVEEETRLQLNSRNR KKDLKTRQEHQSLPEKFSGLQK NVLLEAVIDPALIAQLRQAYEE ALRIAQAPAKSVWQPEEYEEA EHEILLAFRALLASDSERFLPSA WQRFIQQLNYCSMEEIDELRWS LCTIAMNTAHLSEFCVVLAEER LRWLQEENTGEIDEEESFLY AIAKGNVNFQITILHLPVAVQN DTIDFYQMFAIWLPGAPGAYC DGLHTSKRKTCTTSTHQRQRKD TPPALNPHATCTPPHTWLGAP PPASMRSGPHNAPTPPFTGSTPR HTHDHTNITNANIPHNVNSN

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15854	46222	A	15945	1	1228	MGVLNNWLSEESLWQSRHLL RALRYYSNWRQYFAGYTFRGQ YWQSPEDDHLPLREFLAYER PMKNCWKILDIETTDVDIIRRA YLALLPSFHPETDPQDFKQLRQ AYEEALRVAQSPAKSVWQPEE YEVAEHEILLAYRALLASDSER FLPSAWQRFIQQNLNYCSMEEID ELRWSLCTIAMNTAHLSEFCVV LLAERLRWLQENTGEIDEEEL GSFLYAIAGKGNVFNQTLHLPV ARRPDICTQHNDQSRCEGYQIL SDKRGHQHGGGITALYQCGNA DPRAKGERLFFDAPAKDSTQTR AEDAHYAGSNMSPDPDQGDG RKQIWESVRVHTPVRCQQRSLP VTSYLNNGGEIFNLIGLICRTRRIA ARWVKSHNRNARSFECLKRHR FVVAFNRRKPLV
15855	46223	A	15946	71	323	AAGAVVSAMPKAKGKTRRQK FGYSVNRKRLNRNARRKAAIR GSNDLEAEASLPEKKGNLTLSRD LIDYVRYMVENHGEDYKVSQS
15856	46224	A	15947	48	627	AAGAVVSAMPKAKGKTRRQK FGYSVNRKRMSRNAKRAAR GLECSHIRHAWDHAKSVRQNL AEMGLA\VDPNRA\VPSSRKRKV KAMEVDIEEEA*KNLYRKPYY LNDLEAEASLSEKKGNLTLSRD LHLMYRYMV\ENHGE\DYKAI ARD\EKNY\QDTPKQIR\KIN VYKRFPYAEWQDFLDSLQKRC MEVE
15857	46225	A	15948	796	1301	LTKKDYISPNAKAFVQRLPER NLLTRGLKRQRQPCLSWCWCGG QARMPKAKGKTRRQKFGYSV NRKRLNRNARRKAA\RIE/CVR GLGFRVAVGLGRDGRDDGSA MSLFAGSSHIRHAWDHAKSVR QNLAEMLAVDPNMAVPLRK RKVLTVQGLGPCLLYSSPAILT
15858	46226	A	15949	512	675	SQDFGPPSAAPSPGMP\PGPSG CSSHRQEDPPDGAAPPGHGL RPGRLQELLV
15859	46227	B	15950	1	717	

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15860	46228	A	15951	587	1387	RARSRLGNPLRLAPAPNSDV GVQRAIFRPICRKAQVPVGSV ANRRRLRQHTRPDPLGTNRSEP GWWDRSWSPDQAKSGQSCVA KIKKNHMHISTDSEKAFDKIQH RFMIKTLKISIQGTHFWKIIKAIC DKLTANIILNGEKLKAPPLRTE MRQGCPRLSLLFNIVLEVLAKA IRQEKEIKDIQIAKEEVRLSLFA DDMIVYLENPKDSFRKLELIK EFSKVSGYKIKNQYCENDHTA VSGVGSFQWICGLADVKNEAA
15861	46229	A	15952	3	3201	SERGFAGDLRYPTHFLSTNSV LASVTASLKEHPRGTLSDGSP ALSRNVGMTVSQKGGPQTSP AGPGTQLGPITGEMDEADSAFL KFKQTADDSLSLTPNTESIFVE DPYTASLRSEIESDGHFEAE WSLAVDAAYAKKQKREVVKR QDVLVELMQTEVHHVRTLKIM LKVYSRALQEVLAQFISTAIGRL FPCADDLLETHSHFLARLKERR QESLEEGSDRNYVIQKIGDLLV QQFSGENGDRLEIK
15862	46230	B	15953	83	1969	
15863	46231	A	15954	1	444	SSESAVEFSEPASGSSPSWELGS EGAIRDKKTSLGAHVGLSALGR ALENTIAFQKGETDVQKSYDSP QGDCLQDVKGKRPITLE*PSLE NPETRRFLDASYAWRESCLSW HHHTAHDIFAGKPVDPDLPGSTR GQDSAVCSQGQFLIVR
15864	46232	A	15955	2	236	SEGAKRDKKTSALGAHVLSAL GRALEKTIAFGSS/APSKGRKL RSRKVMTRPKGIAWQDVKGKR PTLE*PSLENPEVR
15865	46233	A	15956	1	459	KKVGNYYTTPYRFRMKCHLC VNYIEMQTDPA NC DYVIVSGA QRKEERWDMADNEQVLTTGE RHPLTCLGAL/DPESALGPPKPS RALIVAHEHEKKQKLETDAMFR LEHGEADRSTLKKALAHTVDHI QEAQSAWKDDFALNSMLRRRF REKKKA

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15866	46234	A	15957	564	1189	AAPKMGERRGVNKKYPPDFNP EEAWLSSTDYHNSHPFRERASG SCSQGLIIRFEMPYNIWCEG/C RTNFGMGVRYNAEKKKVGNY YTTPIYRFRMKCHLCVNYIEMQ TDPANFDYVIVSGAQRKEERL GHWRTMNRLLTHRGIEEEAEA WKTDAMFRAGTMRPTAAHF KKALPKLEPHSGRPRAPWKDD FALNSMLRRRRFRVPSKP
15867	46235	A	15958	2	1047	FVDGKLHGRGSTDIGPVAGWI NALEAYQKGTQETPVNVRECL EGMEESGSEGLDELIFARKDTF FKDVCVCSIDNYWLGKKKPCI TYGLRGICYFFIEVECSNKLHLS GVYGGVHEAMTDILLMGSL VDKRGNILIPGINEAVAAVTEEE HKLYDDIDFDIKEFAKDVGAQI LLHSHKKDILMHRWRYPSLSLH GIEGAFSGSGAKTVIPRKVVGK FSIRLVPNMTPEVVGEQVTSYL TKKFAELRSPNEFKVYMGHGG KPWVSDFSHPHYLAGRRAMK TVFGVEPDLTREGGSIPVTLTFQ EATGKNVMLLPVGSADDDGHS QNEKLNRYNYIEGTKMLAAYL
15868	46236	A	15959	163	1388	RLVERWRPSGTLFKYIDENQDR YIKKLAKWVAIQSVSAWPEKR GEIRRMMEVAAADVQKLGGSV ELVDIGKQKLPDGSEIPLPILL GRLGSDPQMKTVCIYGHLDVQ PAALEDGWDEPFTLVERDGLT WCSSCRGPYCRGSS/DRLSWKL PSVMWGDREPHLARLD/HPSG LEPQRPGSTWGGDDRRGGRA LSRQLPYAGYAAAQCKGEVRP QVSSSRLVVECSNKLHSGVY GGSVHEAMTDILLMEEHKLY DDIDFDEEFAKDVGAQILLHSH KSHLHLDLLPVVVRLLGQALFH TAHFDPDNIPSSKDILMHRWRY PSLSLHGIEGAFSGSGAKTVIPR KVVGKFSIRLVPNMTPEVVGEQ ACGAGTRESMSSLYGPSRAED DSGLSALPSQPQPFILYAT

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15869	46237	A	15960	3	433	FETLFSQVQLFISTCNGEHIRYA TDTFAGLCIQLTNALVERKQPL RGIGILKQAIDKMQMNTNQLTS IHADLCQAITPAMAVSHIMLE SYKKYILVSLILGKVVQLPKY TSP/QLVGRFHKPLSNAIYHEL HKLYSTNNPC
15870	46238	A	15961	46	1481	TGSDVAAREDLRWIAAAPPR AAAFSRACCLRRSGRPGENMA SALEQFVNSVRLLLSQGCSCFP GQMTQLCELINMSGELLAKNLS HLADTVLGAADVQEHSLGVL VLFVKFSMPSPVDFEILFSQVQ LFISTCNGEHIRYATDTWQETV LLKSMVLVLVVIYYQLRGIGIL KQAIDKMQMNTNQLTSIHADL CQLCLLAKCFKAALPYLDGDM MDICKENGAYDAKHFCLY GGMIYTLGKNFERALYFYGQ AITTPAMAVRHIIWV/ESYKKY ILVSLILGKVVQLPKIFHLKLV G*IPLSLLSNAYHELAQVYSTN NPSELRLNVNKHSETFTRDNN MGLVKQCLSSLYKKNIQRLTKT FLTSLQDMASRVQLSGPQEA KYVLHMIEDGEIFASINQKDG VSFHDNPEKYNPNPMLHNIDQ EMLKCIELDERLKAMDQEITVN PQFVQKSMGSEDDSGNKPSS
15871	46239	B	15962	1	3411	
15872	46240	A	15963	689	925	
15873	46241	A	15964	1	244	GSAPQSCASAPVSRSAAPGTA EAAEPWAIIVGVEQKNYYVCV PLGLIGNCTVTSSGSLDCADW CLKWKSILMESLEVP
15874	46242	A	15965	469	604	
15875	46243	A	15966	286	433	
15876	46244	A	15967	4356	4643	DCPLARNKSKPOTVCLKARQTF QAINFSRALRITGYLTSFPLSRS TLPSAGDFRASAWA*SGPTV* TLTSVPSVGINSYIYEPVFTLL SGE
15877	46245	B	15968	1	1472	

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15878	46246	A	15969	918	1619	KTHVLSWGSPPKSTWKAGWLQ KQKTTQEKKAESKAPIEEEPAG AGLNKDKETEERSDGERVAEV APEERENVAVAKLQESQPGNA VSCSGGRRKEDEREDWGKRTQ RTHPPAAAQAPGQCPPPGSTEVG AGGGLRWTPSPGRQPAGVAAD MGITVLTVP LQRLQNSWAKE PVLVVSFVIGSLTVILPPLSPYTK YSIMINEATPYNYPVPVHDDGN M/PDMCSHPQGPQGSLEWL
15879	46247	B	15970	183	459	
15880	46248	A	15971	864	1197	GSFRLGHGRIPPFHLRGMKESL GPDFGDPCPCLNSGPGPPGV SAGGAGAGCGMGRRDAWVP TGPVAESPGHLAPISPRQGA PWGGPCGQLGAGTLGQAVCG MTQDP
15881	46249	A	15972	1	441	
15882	46250	A	15973	3	182	
15883	46251	A	15974	23	475	PLEKGRQFPQYEDQITFTDYL EEYPTDDELWVILWKQHLKKT EKSLLSDISARLWFTYRRKFS /ILGGTGPSSDAGWGCMLRCG QMMLAIQALICRHLGRDWSW EKQIEQPQEQRIQLQCFLNRKD CCYSIHQMAQMGVGEKGSIGE
15884	46252	A	15975	224	418	
15885	46253	A	15976	743	1220	WCWGHVRVRLVLAAGPSSRGVL LLLVLVLPWSASFVVRCAWVG VLGDDGVVGGFLLWLGVVGR LAVLRADLAVCVGVVCACVPF VVLPICAALVRVGCSLVEAALG LGARPLKTFFAVVVPLTKGGV VAGSMLVFVPAVGFEVPELLG GPDIVIGRV
15886	46254	A	15977	3	3492	RKHKVGILYCKPGQSSEEMSN NEEAGPAFEKFLSLIGEVCLK GFTKYAAQLDVKTDSTGTHSL YTMYYQDYIMFHVSTLLPYTPN NRQQLLRKRHIGNDIVTIIQEP GALPFTPKNIRSHFQHVFIIVRV HNPCTDNVCYSMAVTRSKDAP PFGPIPSGTTFRKSDVFR/DFLL AKVI*RLRNAAEQVPTSFTPWA TRTRQEYLKDLAENCVSNTPID STGKFNILISTSKKKEKTKARA GAEQHSAGAIA
15887	46255	B	15978	402	2884	



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15888	46256	A	15979	294	1721	AVRPGRHDPASAGLRSAASQ* VRGHPGGLCA*GSIQGPASAA EGPPAHSRAA*SKGGAELRTR* AGGRRPAGPHAQR*LP*GPRV PLRPPSGTFLLP/PPACTPITSRPS *KSCSRASPTPTWSS*IPASGTSP GMVRTPEGA/PGEPEPVVPG PGAARVLPPGVE/PRPCLWARK SPGVFRPSSGGRPPS*KTKWS KPTSTAPRP/P*TLRCTGLAFPL PPREGEPALGRGALEWTCAPLP LPAAAGPRGRRLGCGAAPPPR GRVDQEEK/PGRVPEGPPQANR NHPALPLSPPLSPPT/*PPPAWVP TPALAAAPAPVPTASSHSPSPG NAPVPTGSPRCLFRLPYFPVGS ILLPFRCLISPCRFLRRQFYG WSSAAYALLPHTPLSAACPSGP TTALHGQPQSSCCCEATFTV KSGVVQSGRPSLRQFYVHDFCK IQPQQLLVSHATTKATTDRYST ASCVAR
15889	46257	B	15980	35	314	
15890	46258	A	15981	1	197	
15891	46259	A	15982	3	3889	
15892	46260	B	15983	172	287	
15893	46261	A	15984	8	166	
15894	46262	A	15985	250	1095	
15895	46263	A	15986	366	870	NHSLAKKGTAHGLGMEKCCGR SPFFSFFPWSIAKPTLRSSSSWPH SSSSPSMSSPLQRAVGDT/KRAL SASSSSASLPFDDRSNHPSEA CTTPGGGWEVADGNTDSLAD EGSDFEDSFNRNVKKKAAKRP KTPPV/AKQPKGSRVVHRHSR KQSEPPANDLFNAV
15896	46264	A	15987	30	229	ALETNIGSSYNYGSEDQAEFLC VVSKEHSTPNGLSSESSRKT/ CYKPEAPGCEAPDHLQGLGVI
15897	46265	C	15988	1	930	
15898	46266	A	15989	1	609	

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15899	46267	A	15990	1	875	MRMEAGEAAPPAGAGGRAAG GWGKWVRLNVGGTVFLTTRQ TLCREQKSFLSRLCQGEELQSD RDETGAYLIDRDPYFGPILNFL RHGKLVLDKDMAEEGVLEEAE FYNIGPLIRIIKDRMEEKDYTVT QVPPKHVYRVLQCQEEELTQ MVSTMSDGRFEQLVNISSY NYGSEDQAEFLCVSKELHSTP NGLSSESRKTKSTEEQLEEQQ QQEEVEVEVEVQVQVEADAQ EKGSRPHPLRPEAELAVRASPR PLARPQSCHPCCYKPEEPGCEA PDHLQGLGVPI
15900	46268	A	15991	1	2448	MRRGETRSRRPPQCFWAFAHV SRSSRRGEFFSDFRWKKHSEV RESAQVPTTKREPVLQHKINIK IVIALVDILFALGLNLVCVSPV QLFSVQTDSRATGDQRLPSWT AQRYGTRTLGPDGFTERCYPGP SPESLLCSALPWLRDLGMPVAE APQVAGGQGDGDGEAEPEG MFKACEDSKRKARGYLRVL FVLLALLVLASAGLEMLSDPGS RSYGSGLPAWAKCPKAPHQR SLIPPDYAPGVNHPPPPQERCSM GLRTQGTGLGRHRVLSAQVAF SVSLLMAKIAFAKQKSDDIIPDF KLFMVTLVHRPNRLSARVLT VPVLPAPCPMLLPLEGYKAEV MVSQVYSGSLRVLNRHFSQDL TRRESSAFRSETAKAQKMLKEL ITSTRLGTYYNSSSVYSFGEGPL TCFFWFILQIPEHRRLLMSPEVV QALLVEELLSTVNSSAAVPYRA EYEVDPPEGLVILGQYCEWKPPG RRMQTPRPAMRMEAGEAAPP GAGGRAAGGWGKWVRLNVG GTVFLTTRQTLCREQKSFLSRL CQGEELQSDRDETGAYLIDRDP TYFGPILNFLRHGKLVLDKDMA EEGSQVWTVTSGGWGDRNAV LTGMGRALSFLWLIQYLFCL VRAWVLEAEFYNIGPLIRIIKD RMEEKDYTVTQVPPKHVYRVL QCQEEELTQMSTMSDGRFE

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15901	46269	A	15992	1	573	MPGLLSRPRRGLRARPCGGGE ALPEHVAIDVCPGPIRPIQGISG YFPHFPRDLPHDAPARPATASA GRRRPSDGDARDHDKDGDHLFG SLTIQHRPW/PAPSPDFPFPFAV LYPGILKPMMDHNLADPCVKL HLRPGARKVPEACQLAPDLQD SSCLTAITKAHDVLTVFLPAAL KIQGNKYLTFFCQKLF
15902	46270	A	15993	500	2022	WTREKEPPGVETHGKASRTTL GLSLWCCLHLSEIQSSFISDCAR PRCSGRLPGSGPMLLATPHVLA TVVASSCSKQLWWLPPKVATD QQQMKLLKGLFIAGAPPGSPR/G VQPHLQPIRNMVSVRTMEDSCE LDLVVYTERIIAVSFSTANEEN FRSNI.REVAQMLKSKHGGNYL LFNLSERRPDITKLHAKVLEFG WPDLHTPALEKICSICKAMDTW LNADPHNVVVLHNKGNRGRIG VVIAAYMHYSNISASADQALD RFAMKRFYEDKIVPIGQPSQRR YVHYFSGLLSGSIKMNNKPLFL HHVIMHGIPNFESKGGCRPFLRI YQAMQPVYTSGIYNIPGDSQTS VCITIEPGLLLKGDILNSEILFGV DELSLTGFGLKCYHKKFRSPAR DVIFRVQFHTCAIHDLGVVFGK EDLDDAFKDDRFPEYGVVEFVF SYGPEKIQGMEHLENGPSVSVD YNTSDPLIRWDSYDNFSGHRDD GMEGAQHPIQGDTPPGPSDPP
15903	46271	A	15994	171	720	LSGSAGKVAAPCVPPSNHEL PITTENAPKNVLDKGERPSRGG NTRKSLVTTASTGSPR/GVQPH LQPIINMNVSVRTMEDSCELGPV YRTERNIAVSFSTANEENFRSN LREVAQMLKSKHGGNYLQRN VSL/RR/LSPLRHPGPWPSPQEP GMCQGEPPGPPATLWPMPCGPT VLESPGGPGP
15904	46272	B	15995	145	972	

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15905	46273	A	15996	2	1096	W P V L T A A G C W L Q D P A G H R G G R A G G A G R A V L F Q L Q A G R A E L R G L R A R G W A R S W A P A P G C Q R T G R D A A A A G R R A G A G A L L G F T C L L L A A L C G H L G P S W R G G L A P G G E W I W L R A S E T R G P S G P R P A L M G S Q K I R N I T R T R H G P L H W L H S G C T T A T P F C L T R S C S D A A C S L K G L P C L C P C G L S V L I R V R L E L R R H Q R A G H T I P R I F Q A V V Q R Q P E R L A L V D A G T G E C W T F A Q L D A Y S N A V A N L F R Q L G F A P G D V V A I F L E G R P E F V G L W L G L A K A G / M E A A L L N V N L R R E P L A F / C L G T S G A K A L I F G G E M V R A P P P N A Q A P P L T P V S P A D R L F Y I Y T S G T T G L P K A A I V V H S S A R P S C P S S R T L R A A H R
15906	46274	A	15997	397	597	S I K S P E I H S P S T R I R M G C S S L P T E E A H A E G V I E L S R I K C V E I V K S D / D R I P C H Y K Y P F Q V S P S G G S S P
15907	46275	A	15998	1922	3886	E G D N K L R P R I R R K L F P L V V L R G D A Q G A P P F K N W I M N N F I L L E E Q L I K K S Q Q K R R T S P S N F K V R F V L T K A S L A Y F E D R H G K K R T R K G S I E L S R I K C V E I V K S D I S I P C H Y K Y P F Q V V H D N Y L L Y V F A P D R E S R Q R W V L A L K E E T R N N S N S L V P K Y H P N F W M D G K W R C C S Q L E K L A T G C A Q Y D P T K N A S K K L P P T P E D N R R R L W E P E E T V V I A L Y D Y Q T N D P Q E L A L R N E E Y C L L D S S E I H W W R V Q D R N G H E G Y V P S S Y L V E K S P N N L E T Y E W Y N K S I R D K A E K L L D T G K E G A F M V R D S R T A G T Y T V S V F T K A V V S E N N P C I K I Y H I K E T N D N P K R Y Y V A E K Y V F D S I P L L N Y H Q H N G G G L V T R L R Y P V C F G R Q K A P V T A G L R Y G K W W I D P S E L T F V Q E I G S G Q F G L V H L G Y W L N K D K V A I K T I R E G A M S E E D F I E E A E V M M K L S H P K L V Q L Y G V C L E Q A P I C L V F E F M E H G C L S D Y L R T Q R G L F A A E T L L G M C L D V C E G M A Y L E E A C V I H R D L A A R N C L V G E N Q I V K V S D F G M T R F V L D D Q Y T S S T G T K F P V K W A S P E V F S F S R Y S S K S D V W S F G V L M W E V F S E G K I P Y E N R S N S E V V E D I S T G F R L Y K P R L A S T H V Y Q I M N H C W K E R P E D R P A F S R L L R Q L A E I A
15908	46276	B	15999	58	1526	

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15909	46277	A	16000	3	378	GASPDGLGGRVLGAGASAEPR GRFPGPSPLGGPPVPGCQCAAP SLRDPWGLWAPVLQMTGSYEF KLNQPPEDGISSVKLSPHTLPS GLSPSWETSRLYDVPGNFM AVKYQHTGARPGNGPF
15910	46278	B	16001	83	2851	
15911	46279	A	16002	296	1186	AENHPGVLVEGKMTAPERM KHESNYLRGTAEINLNDGLTG GFKGANFLIRFHGMYYQDDR DIRAERAEQKLEPRHAMLLRCR LPGGVITTKWQAIDKFAGENT IYGSIRLTNRQTFQFHGILKKNV KPVHQMHLHSVGLDALATAND MNRNVLCTSNPYESQLHAEAY EWAKKISKQLLPRTRAYAEIWL DQEKVATTDEEPILGQTYLPRK FKTTVVIPPQNDIDLHANDMNF VAIAENGKLVGFNLLVGGGLSI EHGNKKTYARTASEFGYLPLEH TLAVAEAVVTTQDWDG
15912	46280	A	16003	225	386	GLCIPVVRSPCQLWGQKGPCM LRDEGRVFT*LS TKKNCPGNMR RK YETVDCRR
15913	46281	A	16004	386	739	PLLIHWR FATIEEADHRLAAG ARTFQ/PLCGPPQAQAVWR*AQ *FQFADRF PASRWRRASSGRRF SRSGRRARCQSVAKRRRQIHEC GRSTPDCRCRMRQQYRCRDA RRYQNRAPRR
15914	46282	B	16005	10	1468	
15915	46283	A	16006	3	1267	GRSRR**PPSAVPHDPAVQRER DTQSLSVII*MQIYNFSNTHTLT NHNTFLT FHKTTAETFQHIGP QPTTDTPYHTAEAYCCQLVKLI RRQALRRCWQAAILKCNKSP TNHCTS

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15916	46284	A	16007	1	1673	MTPICTVFRALSRLPDLWHRSI GTLTEALPQTDKRQEIAVALT SYSGLYGLGYGSKEIQLTYSGT ESGIWPFPPYSPNATHKGCGRHR FACPIAPHFLVIEPQSALGSCPS VEVDPGGCVFGAIRLLVLRDAP SFSRLNLTLASGESLQGGPGFV GVSKVYAFLVVRNPTGTPMFT GTFEIPKWPTFPIPPVFORLGSF VLQLQGPRSPGQCEYDRELVSG SRSVSSCLLVLTLLHLSYKDA GVDIDAGNALVGRIKGVVKKT RRPEVMGGLGGFGALCALPQK YREPVLVSGTDGVTGTRRLAL VLKRFVFIGIDLAMCGNDLVV QGAEPFLFDYYATGKLDVDT ASAMISGIAEEKSEILDGSKVSD GDVLIAGSSGLHNGYSLVRQ ILEVHRAAADVLSADAVSW RAPYQTSSGLRKKINQGVSVF DLHLSEVAQMVNYPGFGDIDV AVIEASALAPDGRVWLTSGIRN APTWLLRAKKVIIELNHYHDP VAELADIVIPGAASRRNNGSIFH AMDRLGNPHVQIDPEKIVAVV
15917	46285	A	16008	425	595	
15918	46286	A	16009	315	721	QCFRALGGHRRRIADRGENIQV WIEPGC/INDLLKWLNALDEKY RSRLVWARSSKNSLCASEANW LEMNNRLSKGDLPCIRPILIMLI R*TCSYGFTALR*TQNAAGGGD SLAGGIGIFTLVFFTLPAYAIRW LPR
15919	46287	B	16010	652	858	
15920	46288	A	16011	238	2526	
15921	46289	A	16012	21	522	IPCCRSTRKTSAGLSITSEQRR AAVSRISVTSLLASAG/VRVYRQ HHARDVRERPVDKL/PR**TPC SARLSLYGPSR*WW/MARVLIF VTLPVRSRIVTVSPMRIGFSNRH RPEIKLAKISCKPKPRPTPSAAT SHCNFDHSIPIIEKTPSPISIRY LVMVMA
15922	46290	A	16013	2	527	

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15923	46291	A	16014	1	1734	MVNGCDSTNASSYANVNGCDS TNASSYANGERCDS TNASSYA NGQVRSTNASSYANGERVRL DNASSYAIGERVRLDERTSYAN GERVRLDERILLANGDRVRHHE RILERKATFNNSGTTCCRAVYS RVSAMTAPDKAFTPHRQRCRLP DATLARLIRPQIPAPSVGRIRRL RRIGNSANCLMRRLRVLSGHKF PHHPMPNVSAANGYRSFFPMAS YMTFFFGYLTAWSYCLCGCRW GSLKSPPLALCPVLVPGDGA VD TRIDAVALVALANLAAVRLYA KSSSAAGIINFVLTAAALLAVT AACTVATYALRTGKNRQYRA MQSFRSSIDNRVDITFFKGTGA LGISVTVIAVTCKSRLVYPIPVY TGLSLPQRPVAVVKVNEGSMET KDLIVI/GAGINGAGIAADAAGR G/LSVLMLEAQDLACATSS/ASS KLIHGGRLYLEHYESACEALAE REVLLK/MAPHIAFPMRFRPLPH RP/HLRPAWMIRIAENIS/DFVEP KLCLPRMGTRESVLPGVCRNY ESTITSVISVSPCERDMANYVPR HSAGYRRRFYPMTQPIKDAVEP VDQDWKAGKEMAASRS
15924	46292	A	16015	1	5895	
15925	46293	A	16016	170	371	
15926	46294	A	16017	216	477	
15927	46295	A	16018	2	263	
15928	46296	A	16019	1	2862	

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15929	46297	A	16020	1	1567	MKLNKAGFNVPEYSLLKMPP VGCLISALKKAEDRQEVILRLF NPAESATCDATVAFSREVISCSE TMMDEHITTEENQGSNLSPFL RVRAGESIKFFNVLLADTPGLDI DTMDKDV AHD SRSIQLAML RD DEILTHPVFNRYHSEMMRY MHSLEKDLALNQAMIPLGST MKLNAAEMIPITWPEFAELHP FCPPEQAEGYQOMIAQLADWL VKLTGYDAVCMQPN SGAQGE YAGLLAIRHYHESRNEGHRDIC LIPASAHGTNPASAHMAGMQS RKTAGICCVHLWAGFGKVAIIG AGPAGLQASVTLTTQGYDVTIY EKEAHPGGWLRNGIPQFRLPQS VLDAEIARIEKMGPV IKCTTEV GNTLTLEQVKAENRAVLVTVG LSSGSGPLPFEHSDVEIADVFLQ RARQAQGDIPQSALIIGGGDV AMDVASTLKV LGCAVTCVAR EELDEFPASEKFTSARELGVSII DGFTPVAVEGNKVTFKHGDLR TAPFLGVADKRKNSAGNHP
15930	46298	A	16021	62	329	
15931	46299	B	16022	289	334	
15932	46300	A	16023	1	2991	
15933	46301	A	16024	418	3156	
15934	46302	A	16025	1	2169	



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15935	46303	A	16026	800	2406	SSRRMFPPAIRLLLICLPARRWK SAL/GEEQLQNLQIHSQEMGISP SLFSTQPLWQIAMVLQATQAQ KLGRLAEYGDYQLLQAAKQQ HKPVIELEGAENQIAMLLQLPD KGLALLDDTLTHWHTNARLLQ QMMSWWLECEGGERERIFPVS KRMGKKLDVFGDNHTASL TE TEEYRKSQVHFICIDKRERSSG NYQSIQGCRSAAFFIPSNSTRK RGESMYRMDKLTGGAAYGAS AGSILNGMLNAYSPEQWNAIG VLTTAAAGAEMNPTRLNKLVG AIVGSGGAITIAAVMLGNADGL EGRYYAYQDVVGVTVC DG HTGTDIRRGHRYTDKECDNLL KADLRKAIITYISGYSGTNGIRDS LLFSSLWLIPVFLFPKRKIIAAVI GVAFSRFIASHLAVAFESDPEAE IRQLNSRRVELERALSNHENDN QQQRJQFEQAKEGVTALNRILP RLNLLADDSLARDVDEIRERLD EAQEAAARFVQQFGNQLAKLEPI VSVLQSDPEQFEQLKEDYAYSQ QMQRDARQPGVCP
15936	46304	A	16027	2336	3105	HGNAIALIASQTWRDHPVDLLL SLLVQSLT/GRRLRELNQLQKEL ARNQHLAERLLETEESVRRDV ARELHDDIGQTITAIRTQAGIVQ RLAADNASVKQSQQLIEQLSLG VYDAVRRLLGRLRPRQLDDL T LEQAIRSLMREMELEGRGIVSH LEWRIDESALSENQRVTLFRVC QEGLNINIVKHADASAVTLQGW QQDERLMLVIEDDGSGLPPGSG QQGFGLTGMRERV TALGGAFH ISCLHGTRVSVSLAQRHV
15937	46305	C	16028	1	1374	

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15938	46306	A	16029	1298	2896	GAFTCCATAGGCMNIRKKNRL WIACAVLAGLALTIGLVLYALR SNIDLFYTPGEILYGKRETQQM PEVGQRLRVGGMVMPGSVQR DPNSLKVTFITYDAEGSVDSY EGILPDLFREGQGVVVQGELEK GNHILAKEVLAKHDENYTPPEV EKAMEANHRRPARPSIMMPEIG NGLLCLALGIALLLSVYPLWGW ARGDARMMASSRLFAWLLFMS VAGAFVLVNAFVVNDFTVTY VASNSNTQLPVVYRVAATWG AHEGSLLLWVLLMSGWTFAVA IFSQRIPDIVARVLAIMGVSV GFLFILFTSNPFSRTLHLAYPN RCQPINWRGRHLVWYLLFVIS LWLQLGLPDELSRFTPFCALPI IALAWHYGWQGALIALTMNAI ALIASQWRDHPVDLLSLLVQ SLTGLLGAGIQRLELNQSLQ KELARNQHLAERVLETEQSVR RDVARELHYDIGQTITAIRTHA GIVQRLAADNASVKQSGQLIEQ LSLGYYDAVRPLGLRLPAQLD DLTLEQAIPLT
15939	46307	A	16030	15	277	KIGQKAPLGEARGGERTSRTA KNFGYEEMLSELEA/HRRG/WL KRV*PRMKLPPEALVETFAQLF DAPSQIMPLTSPILLIAIEMGS
15940	46308	A	16031	1	2916	
15941	46309	A	16032	1	2862	
15942	46310	A	16033	1	3099	

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15943	46311	A	16034	1	1567	MKLNKAGFNVPESYLLKMPP VGCLISALKKAEDRQEVILRLF NPAESATCDATVAFSREVISCSE TMMDEHITTEENQGSNLSGPFL RVRAGESIKFFNVLLADTPGLDI DTMDKDV AHD SRSIQLAMLRD DEILTHPVFNRYHSETEMMRV MHSLERKDLALNQAMIPLGSGT MKLNAAAEIMPITWPEFAELHP FCPPEQAEGYQQMIAQLADWL VKLTGYDAVCMQPNSSGAQGE YAGLLAIRHYHESRNEGHRDIC LIPASAHGTNPASAHMAGMQS RKTAGICCVHLWAGFGKVAIIG AGPAGLQASVLTITQGYDVTIY EKEAHPGGWLRNGIPQFRLPQS VLD AEIARIEKMGPV\KCTTEV GNTLTLEQVKAENRAVLVTVG LSSGSGPLPFEHSDVEIADFLQ RARQAQGDISI PQSALIIGGDDV AMDVASTLKVLGCQAVTCVAR EELDEFFASEKFTSARELGVSII DGFPTVAVEGNKVTFKHGDRL TAPFLGVADKRNKSAGNHP
15944	46312	A	16035	367	849	NNFCSTSHHGQHHTDHRGC EQNVCHRDAICQTLFRITTKDDS NFICLIEAQSACHKDVNYNHDS QKNAADHHDKQK*SPANFMPD TINDGFAERCINHQNGRLVSF RNPFPIARHPVTNPRPGKMPQH KRQQQLQHNFTDLLKAAPCTV NIHHQTNNQW
15945	46313	A	16036	1	1066	MHQRPRTRNAVEQHFRSRLQY YALHAFETIPIPLMRGRSIPAL VNNKLRSLERFSTRKIDDDA LARLVSCAWPGNDFELYSVIE LALSSDNGRIRVSDLPEHLFTEQ ATDDVSATRLSTLSFAEVEKE AIINAAQVTGAPFWWLGDKVL TIPLTLGMVAAALTDLDDRLAG RLRNLIITLFCFFIASASVELLFP WPWLFIAIGLTLTSGFILLGGLG QRYATHAFGAILLNAIYTM LGT SLYEHWYQQPMYLLAGAVWY NVLT LIGHLLFPVRPLQDNLAR CYEQLARYLELKS RMFDPDIED QSQAPLYDLA L ANGLLMATLN QTKLSLLTLRGDRGQRGTRRT GIL
15946	46314	A	16037	1	951	
15947	46315	A	16038	576	669	

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15948	46316	A	16039	1	1047	
15949	46317	A	16040	2	425	
15950	46318	A	16041	148	1052	RARRGVSVKAKKQETAATMK DVALKAKVSTATVSRALMNP KVSQATRRNRVEKAAREVGYP QPMGRNVKRNESRTILVIVP DIDPFFSEIIRGIEVTAANHGYL VLIGDCALIQQEKPFIDLITKQ IDGMILLGSRLPFDASIEEQRN LPPMVMANEFAPELELPTVHID NLTAADFVAVNYLYEQGHKRIG CIA GPEEMTLCHYRLQGYVQAL RRCGIMFCRFTAEGVQEIDYKD IA TLKNYITESGGVTelihffiaey SDNQRANAGGGVEDEIEVLES LRLNENHAIKERC
15951	46319	A	16042	3	741	
15952	46320	A	16043	237	1542	FHRLWTGRFLSPPSRRGTDNA AGRTKMPPSPVIF/WFALAQFV GVKHSRSHIPFAAVRSHKARIS ISRSDVATSILPQLS*RMPP*SQ KALVARFPARQNCAPRLPGV*/L DPGMDHAAVVARLVTRGGIV WFGDFYRSVDDIHFGAWGDL AKECFDIVIPQNTARTYPHAN AEGVRTMKQINAAIGRQTNRM MAHWVIRSSRHRYRQLNSLCFI TGADVCRWFPQHVPGRDSVA HVVVQHVITYRLRLRGLLHFAG DGGVNAITVFIGTFAITVIHLLA HHFAQVRRRESNLRVIVSVNR LSACLIELLLGDIPIQHPRQHD VTPRDGTIHRVERVEGRRFRQ PGYHRHFVQRQLVDRFSEIDLC RSTDTIGAVTKVNLVQIKLEDL VFRQQLFNANREEDFLNLTHQR AFWTEEEVSRQLLNGTCLP
15953	46321	A	16044	1	1059	
15954	46322	A	16045	104	349	RSAAAPWKRKALVCCSAVVIS PALKISMIVTISVQAHG*LRKGS GVKAALSWWKFPQTMKPTITS SLTGRRISCRSRVKR

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15955	46323	A	16046	1056	2373	GPRLVQRSDHRPHDANYRQYL AGLSVHDDPLHGLAEVIPDDL YEASMDGAGPFQNFVKITLPL LIKPLTPLMIASFANFNFLI QL.TNNGGPDRLGTTTPAGYTDL LVNYTYRIAFEGGGQDFGLA AAIATLIFLLRIPRRTTALQGM SNLNMESSRWARANRRLKAIN TLSLTLITQSCETYLIQNTPELI TDTFREFFDTPVETAQDVHKQL KRLRRVIAWTGERETPVITYSW VAAATRYQLLRGVISNTKINA TEEELQGEPEVKVESAERHHA MVNFWRTLSCLGLTFLFWLT GWTSGSGAMVMIADVTSLAM RLPNPRMVAIDFIYGTALALPY GGGRPVAVGVFYGGCYCTRDG LTRAPPPNAAPTAARYGPRTTP RTLKRGITDVRCEKRHHQQA RNAGYQTVFSDLRLRHPALR

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15956	46324	A	16047	1	2581	MVLMGLAQNIWQFLILRALLG LLGGFVFPNANALIAATQVPRNKS GWLALGTSLTGGVSGALLGPMA GGLLADSYGLRPVFITASVLIL CFFVTLCIREKFPQVSKKEML HMRVVVTSLNPKLVLSLFVTT LIIQVATGSLAPILTLVRELAG NVSNVAFISGMIAVPGVAALL SAPRLGKLGDRIGPRKILITALIF SVLAVIPRHFEMRSKESRPSAW VTPKGEWGKGSVELVEIPTNDE TNDNIVAYWTPDQLPEPGKEM NFKYTITFSRDEDKLHAPDNAW VQQTRRSTGDKVQSNLIRQPDG TIAFVVDFGTGAEMKKLPEDTPV TAQTSIGDNGEIVESTVRYNPV TKGWRLVMRVKVKDAKKTTE MRAALRVWNKPGQNHQHLGN GFYGGVYGGYLETMFGGAGAE VLYRPLDSNWAFLDANYVKQ RDWRSAKMMKFTDYSVKTG HLTAYWTPSFAQDVLVKASVG QYLAGDKGGTLEIAKRFDSGV VVGGYATITNVSKEEYGEDFT KGVYVSPLDLFSSGPTRSRAA IGWTLPLTRDGGQQLGPGYTDLL VNYTYRIAFEGGGGQDFGLAA AIALIFLLVAIMFPLLMVVAIS LRQGNFATGSLIPEQISWDHWK LALGFSVEQADGRITPPFPVLL WLWNSVKVAGISAIGIVALSTT CAYAFARMRFPKGATLLKGML
15957	46325	A	16048	1	765	
15958	46326	A	16049	869	1012	MAISFMMSCFVT*VAANSAILL SMSWRA*SNSNGP*LANILLS AAC

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15959	46327	A	16050	1	1854	MTLSNCSNDFEKT VTSVPALPD VVSDSDMSLNALS VTLADNVQ LSFRRDSYSGQPSVIYTTQPRRT AGSEDAPVWPEAFTEDVRHNR PPYPVPIPRATRPACLARERMAM YMRPQIKTIGKAPAEALSNPR MQGPQLSSASTIPVTPFHWLFG SHAAGHFSQHAHRTALTGHFS HLATTLKGLALEGNAIFTTTRFT RPYGHKNTTPHSP LCSAPHSPIF NSRRK VYGGQHGPQWWAFIHS RPGSSSHSILHCFALVCPGLV QRDTPHPIRPALCPPIATFSLSL WLGNSPSPSGTQHLQGP KTFQ QASPSK VCPKRLICTVIPQQRV ASHHHFHGHNRYYQLGLPVQH CTLQGVIRATHFIPRTARNQISH VSWGAGPAHSDSQGKDLE/H EPIKPLDNSEKASKV/SQALET TTTAEKVQRQ/PVIAHLIRATER FNDR/LGNQFGFVLAS/HPMLL QDIFDKILQNS/DPTLAATLKNT INTAVHSHLVAPAGDGIFLLLRP FDAVCAAWIATAEYKDYPGMP GKTHLKIRLMRRERLIGIRFYSG LLPGTKAPYSRTLAFKRVLHTA LSLHGLGKTCTTGELCSLTL EYASNAFTYWPDWHINRIKKN N
15960	46328	A	16051	249	724	EKVKKTORKEIENVTNITGV IELWRRDDLQHPRLDEVAEEVP VALVYNGISHVVMASPKDLE YFALGFSLSEGDIIESPRDIFGM DVGVPACACNGLEERRALDGR TVAGCGVCGVEQ/LNDIGKPV QPLAFTQT/FDLNKLDALRHL NDFQPVGN
15961	46329	A	16052	71	408	RYLSTASQTSIQIAGLSRSRA FTTFGSKGILLSHTSVFIPDRCT SFSMMPTCSASLTSCHPFQMTS LLSSHHP/FK KKKFGTKTGHCL CPSLNCLPCCFSQIMVIKQVIL
15962	46330	A	16053	668	905	CLHVLHHLTSHCPQMTKPYST IHFLPRMTSLSSHHP/FK KKKF GTVKTGHCLCPSLNCLPCCFSQ IMVIKQVILEKKK
15963	46331	A	16054	834	1057	ARLLFMDLLDERTLVAVERPL VTSLSSHHP/FK KKKFGTKTGH CLCPSLNCLPCCFSQIMVIKQV ILEKKKTK
15964	46332	A	16055	1	1011	

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15965	46333	A	16056	191	631	NLLRGNKMATQSSPVITDMKVI PVAGHDSMLLNIGGAHNAYFT RNIVVLTDNAGHTGIGETPGGD VITYQLVDAIIPMVLGQEVARL NKMVPQVHKGNQAADFDTFG KGAWTFELRVEAGAGLEARLL DLGKALNVSGCELLGHGS
15966	46334	A	16057	2	335	GARQQQKFVLIAGGFP*QLL*T NAVIGREFRNVQECIGLHTAGF ANAVTKHFGKCAIALHNMAFR IEDNHRSEVMVNGNNQLSGLFF LRHFYAGIPYQQRQVINFLGAH
15967	46335	A	16058	736	910	RVSTPRATGTVPQRDYLPSVVA TG*PDSFHTYLFVRTY*K*V*VL AYLNTRQNDGDFP
15968	46336	B	16059	17	1699	
15969	46337	A	16060	3	440	
15970	46338	A	16061	1	564	
15971	46339	A	16062	1	1062	
15972	46340	A	16063	203	425	LNNWISWLLHMMCLMKVAN CFRS*DRRELAVSAFFVLL*AM RLRRSSSGFLANLAHLQKMKL NSSTYVPPTKH
15973	46341	A	16064	402	713	RGVAISLGQSKSHGYIHFQVAQ REPEILGDSIKA VRWCSLHGRL M***M*RD LKQWFSAP EA*VSL GTL CVIGQKAVGSLALMSWEP TPRPMGLLSTSR TLYS
15974	46342	A	16065	944	1305	LPLWFISALRLAGIAVWCVLST GFEQIRMIFAGLED RQSAL/FA ADAEDTGKKNMVRAR/IDARF DPTIGWPSSLGLLFSNRTPWVPF PFFFQVPQLHTFIRGILJWKTFP FWIFPPFPASSW
15975	46343	A	16066	1	756	



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15976	46344	A	16067	50	1191	CLTIAVFFPAPQCPMFSPICHT ARDGERAASMIQDYIFCFFSASF MKLKPERMHSHIERAQTSDMLK DCRRHLPIGILMAGGMFAVLRK KHQQTIERPRISLTCMLPSW ATFLWLFTRIGQVLVTCLLMSR ECFVNE/VQVIATVSVNPQVN PDIVAMIGASAAALSLGIPFNGPI GAARVGYINDQYVNLPTQDEL KESKLDLVVAGTEAAVLMVES EAQLLEDQMLGAVVFGHEQQ QVDSRGSPKGNRTCDNYIVIEG LIDYVNDMIENVSEEAFCVENR IMRHSDDHSCIVVRLSLFALD LVLVVIASVVNPCLLEVTRLR AASIVSQPNLNSDTWGIGAILY GAYTCSCIADPHKMMSSGPMY SHSCVEK
15977	46345	A	16068	401	1518	LILFMST/ALLDAVVKKNRVRLI PYMLALYVLAFLDRSNIGLAKQ TYQIDTGLSNEAYALGAGIFFV VYAFLGVPAANLLMRKLGARTW IGTTTLWGFLSAAAWADTE AKFLIVRTLRLRAAEAGFFPGMI YLTSQWFPQRNRASIMGLFYM GAPLALTLGSPLSGALLEMHGF MGHPGWFWFMFVIEGLLAVGA GVFTFFWLDTPQEARFLSKQE KTLINQLASEEQKVTSRLSD ALRNGRVWQLAIHYLTQVAVY GLIFFLPTQVAALLGTVKGFTA SVVTAPWVAALFGTWLIPRY DKSAAKRYTRPHRECGYFSAPY HPPKVRNNAPHSGPGICLIRL RVRVRPNLGIEVYKHDSPPNNA
15978	46346	A	16069	283	822	

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15979	46347	A	16070	1	1400	MTDLIQRPRLRKSPALRAMFE ETTLNLNDLVLPIFVEEIDDYK AVEAMPQVMRIPEKHLAREIER IANAGIRSVMTFGISHHDETGS DAWREDGLVARMSRICKQTVF EMIVMSDTCFCEYTHSHGCGV LCEHGVNDATLENLGKQAVV AAAAGADFIAPSGAMDGQYDV FVRNENYWGKPAIKITFNVI PDPTRAVAFETGIDLLYGNE GLLPDITFARFSQNPAYHTQLS QPIETVMLALNTAKAPTNELAV REALNYAVNKKSLIDNALYGT QQVADTLFAPSVPYANLGKPS QYDPQKAKALLEKAGWTLFAG KDIREKNGQPLRIELSFITDAL SKSMAEIJQADMRIQADVSLI GEEESSIYARQDRGRFGMIFHR TWGAPYDQRPQSQRVQR*F QAQQD*MKKPTQSKWNRATR VRGGEILTKFVLTAFLKWLKR SNSRRVSFAG
15980	46348	A	16071	592	1427	IPIGVTPCFSTLRLTLFALLACAS FIVHAAAPDEITTAWPVNVGFL NPHLYTLNQMFQAQSMVYEP/LV KYQADGSVIPWLAKSWTHSED GKTWTFTLRDDVKFNSNGEPV/D AEA AAENFRAVLNDRQRHAW LELANQIVDVKALSKTELQITL KSAYYPFLQELALPRPFRFIAPS QFKNHETMNGIKAPIGTQPPWN LQESKLNQYHGFGRNENYWGGE KPAIKKITFNVIPDPTTRAVAFE TGDIDLLYGNQRLPLDTFARF SQNPVYHTQLSQIWNQ
15981	46349	A	16072	1	1071	
15982	46350	A	16073	585	1072	RPARDVPLPIRGLQPSLRGPQQL PEKPAVEVRLDKWLWAARFYK TRALAIREMIEGGKVHYNGQRS KPSKIVELNATLTLRQGNDETR VIVKAITEQRRPASEAALLYEET AESVEKREKMSRPGPPFVGAP KNPRGFLKLNALTMHPDRRP DKKERRDLLR
15983	46351	A	16074	36	356	ASHTLARKSC*/PSLLYQENQA HNQMPASELKASEIPFHPSTKTQ DPKAEESPRSKR*L*QRQVLP DPAADLSVKPPGLMLPLCYLS GPADITVLKASQDGLIIA

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15984	46352	A	16075	1	2111	MNTPLQSAHTHLTLVEFIAYLV SDSPFPAASTLSLPTCNFDCPT KLGAGTMPAAAGGQRRPHAA PPAAYPHRNKVRAAEARTSRA VRREYEAGDEASGRRGRGGRM KSVQNARADRGMWVRRERAV VRGQENTVVVFAAASPESDFL QIVLRDIAREMVPEYKSDLQPR TQMDAKKPRKCDLTPFLVLKA RKQKQFTSAKHLWVQRKGKG VEDHADWQGGQWVGVEGKSA EQQGLNLTGAFNRSPENKVSFQ GPALNALEIDSSYLDPQALALP QGWQGLLPPLLTGTELVGSKLS VQIQKPPSPNIKNSRMTQVFHKN TSVTSLPFVDTKGKKNTVSFPHI SKKVLLKSSLLYQVSDGLDPE KAGERPGFSPKPVLERPRIVGKS TVAAEEENQAHNQMPASELKA SEIPFHPSIKTQDPKAEKSPKK QKVTLTAAEALKLFKNQLSPYE QSEILGYPELWFLGLEAKKLDL APEKFSKTSFDDEHGFYLVH DHIAIYRYEVLETIGKGSFGQVA KCLDHKNNELVALKIIRNKKRF HQQALMELKILEALRKKDKDN TYNVVHMKDFFYFRNHCITFE LLGINLYELMKNNNFQGFSLSI VRRFTLSVLKCLQMLSVKIIH CDLKPENIVLYQKGQASVKVID FGSSCYEHQKGHLPSRLRSAVT TTSMLNKVLRFSPEKLPHLQFE

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15985	46353	A	16076	28	1327	GYKMPVITLPDGSQRHYDHAV SPMDVALDIGPLAKPLVIRQ GAAGLMAKLVDA CDLIENDAQ LSIITAKDEEGLEIIRHSCAHLG HAIKQLWPHTKMAIGPVIDNGF YYDVLDRLTQEDVEALEKR MHELAENYDVIIKKVSWHEA RETFAARGESYTVSIVEENSAD DDKPGLYFHEEYVDMCRGPHV PNMRFCHEFKLMKTAGAYWR GDSNNKMLQRIYGTAWPKKA LNAYLQRL EEA AKDRHKIGK QLDL YHMQEEAPGMVFWHND GWTIFRELVFVRSKLKEYQYQ EVKGPFMMDRVL WEKTGHWD NYKDAMFTTSSENREYCIKPM NCPGHVQIFNQGLKSYRDLPLR MAEFGSCHRNEPSGSLHGLMR VRGFTQDDAHIFCTEEQIRDEV NGCIRLVYDMYSTFGFEKIVV
15986	46354	A	16077	1692	1776	
15987	46355	C	16078	1	1341	
15988	46356	B	16079	83	373	
15989	46357	A	16080	2	64	
15990	46358	A	16081	1695	2293	EMISNPFIPSSILPLAKIRNIGIMA HIDAGKTTTTERILYSGYTRSL GDVDDGDTVTDFMAQERERGI TIQSAAATFEWKGYRVNLIDTP GHVDFTLEVERCLRVLDGAVA VFDASAGVEAQTITVWRQADK HNIPRIVFLNKMDKTGASFKEYE VITISLQKSGITKLCFFCVLKL V SQERCQASKCNKIEGQRFNQ
15991	46359	A	16082	1	2901	
15992	46360	A	16083	1196	1740	FWLKAMPTIVTASPRWFSC/LR EIRSAASAIATAIQQAIRPSTV IATLLSNSHGNSSDSTSVMK AIINKLRILRGRSRPQRTRGPTPS SSANGTISQVNMVLKNGSPIEL PSPCLCTNGSSVPSNTTSIAAT SKTLFANSKSDRSHALFTRER TLCPRAANSSSEPANHQHKKGE D
15993	46361	B	16084	49	398	
15994	46362	A	16085	378	566	
15995	46363	A	16086	1	2184	
15996	46364	B	16087	311	4963	
15997	46365	A	16088	12	335	
15998	46366	A	16089	1034	1400	

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15999	46367	A	16090	1767	2973	SGARRLAG*KPGNAVSAAPFY YARPV/SMISPMILIPC*CWKC/D PAAKRQFRERTAVRCVAQFVD VGKLIPFWGLCVGIYATNSAET FLHRVVQLLNDSEVHTLQDAIT IRDEDTATPSPADEVAYIQLSG GTTGTPKLIPRIHNDYYYSVRR SVEICQFTQQTRYLCAIPAAHN YAMSSPGSLGVFLAGGTVVLA ADPSATLCFPLIEKHQVNVTL VPPAVSLWLQALIEGESRAQLA SLKLLQVGGARLSATLAARIPA EIGCQLQQVFGMAEGLVNYTR LDDSAEKIIHTQGYPMCPDDEV WVADAEGNPLPQGEVGRMLTR GPYTRFGYYKRSSVLGKGSDCS FGVFLPGLLPASSVRRDSNVSI RNVVSLINSSRWKSGFTWHDN VLQLDGSFPLT
16000	46368	A	16091	845	1920	YPMMRK/RLMKLWREAKALHS DPFEPWASHIEDADKAKSSKQA RGRGGFVRSWQEVNELIAASN VYTIKNYGPDRVAGFSPIPAMS MVSYASGARYLSLIGGTCLSFY DWYCDLPPASPQTWGEQTDVP ESADWYNSSYIIAWGSNVQTR TPDAHFFTEVRYKGTKTVAVTP DYAEIAKLCDLWLAPKQGTDA AMALAMGHPPERESGRYRLIPV PASGYPPDPAPEWDQFPVHVEL CDTANGCPLPELASPAGYTSSIN RVSTCVSTLAKSYRSRVRVKR LRRRFNGGVHFRVVAVVIDQ HICRTAFTIIIWLQREFTEIEKTAT SPLEAFKRPQNSLVVNALFRSN RNAAAAFSAL
16001	46369	A	16092	1	209	VSFMIIAALMMMGIDTGWLLV AAGFVGAI/IAS/ARPGRNSKRL IALISAIGMSIFLQNYVSLTEGSR DVA
16002	46370	A	16093	194	657	CLDHILRAVQSLRLPLSVPAAM RPGAAGYTMVYGIIGMIN/FAH GEVYMIGSYVSFMIIAALMMM GIDTGWLLVAAGFVGAI/IAS/ AYGWSIER/VAYRPVRNSKRLI ALISAIGMSIFLQNYVSLTEGSR GLATEMFLEKGDNGTEDGRAR
16003	46371	A	16094	1	3303	
16004	46372	A	16095	3	5071	
16005	46373	B	16096	144	326	

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16006	46374	A	16097	282	599	IPVSI SGCHLAGAGTQTASGV P VHPHGH LAHQRSFIGNTKTEC WPISVPPHHW*A**TDIGAGSG DDQRVLDVW\WNWRTKE*P*W W*PTNGLCRKVANRQAAR
16007	46375	B	16098	1	276	
16008	46376	A	16099	812	1084	
16009	46377	C	16100	1	1608	
16010	46378	A	16101	173	504	SADSKPVLPRTSASLVSASCSTR CGLRQASMESNNLTMTVFGFSIG K VWMRS*NSATSLAKSRISFGT RRRWHSCTSN/SNTRRAMTMM TRPEFWRRQPCGLSIAAIESVIK V
16011	46379	A	16102	1	816	
16012	46380	A	16103	742	1182	PAFIECSKAQENNHKGNCYQSG SLVSR*AFLIRHTRPVITNARR*F *RKVFHQRHGIAGTGSWRGFPL NLH*RQTVVAFQSRRAIHPM*S GKGREWHHFVAGAADIKFIDIF WQHTEFGIRLNTRRAMTMMTR PEFWRRQPTEIVA
16013	46381	A	16104	550	884	KRYGMAASFHSGEITTHRTAP WRMVVMSPARSMADLAQTA WRG/APRPLPDLATMTMPQAY/ NSIQYDAEKLWHNVE/NRQOLD AQFFHMGMGFRRLTLWAGITN AQVCGWTA

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16014	46382	A	16105	2363	2856	MLTLWSSPTTTRRWRWAASSV ANTLA*MTLSMAAMLSPQVDV RFATLCHDLGKGLTPPELWPRH HGHGPAGVKLVEQLCQRLRVP NEIRDLARLVAEFHDLIHTFPM LNPKTIVKLFDSIDAWRKPQRV EQLALTSEADVRGRTGFESADY PQGRWLREAWAQAQSVPTKAV VEAGFKGVEIREELTRRRIAA SDTIPQLNEHDHRRRHNAKIN GERDQRNALNQLQEGFNRYQR HHKSGDQPNKGHRDIAACQEA PALVEIERRCAHHHRHQQERK SEQHAARFGIANGDLVRVWNK RGQILTGA VVT DGIKKGVVCV HEGAWPDLENGLCKNGSANVL TADIPSSQLANACAGNSALVYI EKYTGNA PKLTA FDQPAVQAN TRPLRLARNQHRAFRCRITFHR FTRJMWVEIQRFNGNHPFGRV RIQDSLVCVCGALRYISATFNVV RKRAVTCVRSFGSDFTGSPPLR APKGESIRLLALREAGIIHILAL GEDYKMEINESRTVLKTEDNSY SFDVFIDARGORPLKVKDIPFP LREQLQKTGDEIPDVGEDYTLQ QPEDIRGRVAFGALPWLMDHQ PFVQGLTACAEIAAACGPFDDK RIEGGIVVRMAKEGETLVLLDG TEAKLNADTLVIADHNKALAM GGIFGGEHSGVNDETQNVLLEC AFFSPLSITGRARRHGLHTDAS
16015	46383	A	16106	390	636	KFLSFRPDRVCVACAEERAGL CLRQCITGHPEACLAIPVLVCVE CWGGTDADQPVA VFPSRSQV SPDRGT*QWLCWKFL
16016	46384	B	16107	1	520	
16017	46385	A	16108	142	243	
16018	46386	B	16109	275	919	
16019	46387	A	16110	1	693	
16020	46388	A	16111	522	714	

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16021	46389	A	16112	1	900	STCSSRSHLHLIQASPILPNYVA TAAVAARIADVQGISDTCVIAQP SPPHPGALRTLVTFTDEPETPQP PGAAGFQLVQKKQVQLHNVLVY VMTPHAFAGQTVITIYLPGEQQT LSVAPLKNVVQLVTQGHRLDR LWWPGAFLLTDFAAKVKALKD/ YPNHVMAQRASGEAEADDDV AATIKSVRQQLNLNLTGRLPV KLDPDFVRVDENSNPPLVGDT LYTVQRPGTEQGSFKVKRARA RVRQTRAPLFGPKSPAPEHMES ELEFELIGPSKSTSGNPRGLRSE RPVLFCLYPEMPTAAAAR
16022	46390	A	16113	150	649	NALLGTCPGTARFFGTGSAPTL HPDASRSGRGAACPRSAQWS PRPWQSVAGLAWLGAHWGSR STSRTAETTASKRGHPRSPAQA LPPGPRPPRAPQLQRALQSVHP LSRPRAPLA/EPKLTAACWAEA VKITTVRYSDSCSRLLTDLGKP VQSMMLLKDIRKVYNWQ
16023	46391	A	16114	153	740	THQLFLPHHQEISQTTWLSAA WPRHTCAHSLSPLOPPVPSRP HVPLPGPSKTSWSDGPRQLSLPG/ RPSERTPRR/CRSASGQPPHLGG EERLCLAAPSGRICHCEGDDES PLITPCHCTGSLFVHVHQAQLQQ WIKSSDTRCCELCKYEFIMETK LKPLRKWEKLQMTSSERRKIM CFSDIPRHCPRMCGLLVCAH
16024	46392	A	16115	1	1194	
16025	46393	A	16116	323	642	TGYARQKPVPAALGWWTNVSAS TAPPILPSITGSRSLAVIKWLTVS AGKLSALLCASCQKGG/VGEM ANGNGERNHKQIGDVTLPPO HYRKIYQPIAARSCIRCVCGS



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16026	46394	A	16117	1	1782	MAGIRSTLIKEKNMITYEATV VTIDDIHVHEVNLGKRIGYVIK TENKETPFTVVDIDGSPGNVKT LDEGLSLLSLVSVVMKLFYQ YEQRFGMRSTSLNVIGSNTIAI YTTTHRII.VEIFSLTLAQMNAA RWSPQVELTLLVYPFVSLFICT VAGLLNLTVMPEQYRYTLPV KAGEQRLLGELTGAPCATLVA EIAERHAGPVVLIAPDMQNALR LHDEISKFTDQMVMNLADWET LPYDSFSLHQDNYLLVAFQPFY QLTDDAAVGVLIIVPNTLMQR VCPHSFLHGHALVMKKGQRLS RDALRTQLDSAGYRHVDQVME HGEYATRGALLDLFPMGSELPY RLAIGVNVAAQAEVLNLESGAK QVLQETFGYQQFRPGQEEIIDT VLSGRDCLVVMPTGGGKSLCY QIPALLNGLTVVVSPLISLMKD QVDQLQANGVAAAACLNSTQTR EQQLEVMTRPRIGDGTGALRK RVAQLAFKNQPMVMGNWAQS ILHGGVIASALDVAAGLVCVGS TLTRHETISEDELQRQYRGWGP LIFALICAQAGASVLLLLVACC VQAIKSPSPALNYTMKNSFILPV
16027	46395	A	16118	380	1431	TALLIRDMPPYVEAYPNENLTT VMPEQYRYTLPVKAGEQRLLG ELTGAACATLVAEIAERHAGPV VLIAPDMQNALRLHDEISQFTD QMVMNLADWETLPYDSFSPH QDISSRLSTLYQLPTIQGGVLI VPVNTLMQRVCPHSFLHGHAL VMKKGQRLSRDALRTQLDRAR YRHVDQPAHAGGKVLLEMIVVG IATWLGFLLFGLNYSLLAVLV GFSVLPIYGAFVVTIPVVGVAL FQFGAGTEFWSCFAVYLIQAL DGNLLVPVLFSEAVNLHPLHHR EQIGGNKMADRQCRKIVCATV RQLPEGGRGEMANGNGERNHK QIGDTVLKATGSKQGDGQNHG
16028	46396	A	16119	1	940	

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16029	46397	A	16120	114	1380	NRVHCRRCSSGGDTGVSHLKG NVKYRYELTDSVGVMA SLGFA ASKKSSTVMTGEDTFHYESLRG RYVSVMAGPVLQISKQVSAYA MAGVAHSRWSGSTMDYRKTEI TPGYMKETTARDESAMRHTS VAWSAGIQINPAASVVVDIAVE GSGSGDWRTDGFIVGISGVLKD GTGKPVQNCITQLKARRNSTTV VVNTVGSENPDAGRYSM DVE YGQYSVILQVDGFPPSHAGTIT VYEDSQPGTLNDFLCAMTEDD ARPEVLRLLELMVVEEVARNAS VVAQSTADAKKSAGDASASAA QVAALVTDATDSARAASTSAG QAASSAQEASSGAEASAKAT EAEKSAAAESSKNAAATSAG AAKTSETNAAASQQAATSAST AATKASEAATSARDAVASKEA AKSSETNASSADYAAAS
16030	46398	A	16121	165	299	GILPISEPPSNRIFACWGKPAWT ACCNSLRARR*RAISCCPSHW
16031	46399	A	16122	1	388	MGSKSWVTQKGPAPAKSSQV GRVKQATATDTGRTRDSHMER PKCSKGYLCLPYMALQQHHLL SDVTVRGFGVAGATNILFRQQKH LSDAIVEVRLCGSDLVLYGTST PKNLIWVMHVVGHRPDRR*C CCNA/SVRQTQISLRAFGSFHM AVSGSSSVSGCSLFHSAHLTAL CFSWPLLCYPTLGP
16032	46400	A	16123	130	414	
16033	46401	A	16124	1	387	
16034	46402	C	16125	1	1611	
16035	46403	A	16126	318	401	
16036	46404	A	16127	519	658	YPGSLLASKGTKLDGE*V*RS RLQKVGNNKLLQAKGACSNPT QES

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16037	46405	A	16128	1	1837	FRPRLVAAKPSVFADVQSMES VGTGGGAAEAGGVRSRGLCPT RMLPGLAAAAHRCSSWSSLCR LRLRCRAAACNPSPDRQEWQNL VTFGSPSNVVPCTHPYIGTSLQ EKLYSTNVHKEGQGSHTLREE KVPSFVTAEGVGAKLISPLKQE PLQVRVKAVLKKREYGSKYTQ NNFITGVRAINEFCLKSSDLEQL RKIRRRSPHQDTESFTVYLRSD VDAKSLEVWGSPEALAREKKL RKDAIEYRERLFRNQKILREY RDFLGNTKPRSRTASVFFKGGP KVVMVAJICINGLNCFFKFLAWI YTGASMFSEAIHSLSDTCNQG LLALGISKSVQTPDPSPHYGFSN MRYISLISGVGIFMMGAGLSW YHGVMLLHPQIESLLWAYCI LAGSLVSEGATLLVAVNELRRN ARAKGMSFYKYVMESRDPSTN VILLEDTA AVLGVIIAATCMGL TSITGNPLYDSLGLGVGTLLG MVSFLIYTNTAALLGRSIQPEQ VQRLTELENDPSVRAIHDKVA TDLGLGKVRFKAEVDFDGRVV TRSYLEKQDFDOMLQEIQEVKT PEELETFMLKHGENIIDLGAEV DRLEKELKKRNPEVRHVHVDLEIL
16038	46406	B	16129	1	1065	
16039	46407	A	16130	1248	1658	PLALPEFISKSWKERLTDTTVLF LKARRQSLCLQIGDPLES/ILQ AFCVLSVAKESQLYTYLHAIMR TLKSSIARGARTFQSTSDGTVKS RPSKIIFLPRLHDFRFSALRHL DPKKLDLGDGSRSAIRPDRRF
16040	46408	B	16131	969	1026	
16041	46409	A	16132	339	432	RYMVLSEFRSMQTGITKWKERI L*NCRKRE
16042	46410	A	16133	3	443	HTWNSDRMTMYLQRRHIFKNC FWLQAGYSLGAPSWRSLVTWV QIIFSDFYRKTLCSNSPLF*SLC QRQSTLLGTLIFCSYASSPEAI NSAAPRVRSRPTDPKARSPRG VGGAEGNGSRDTEPKGGRPLA TPSQGERLMAGVTVK
16043	46411	B	16134	34	1426	
16044	46412	C	16135	62	217	

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16045	46413	A	16136	1	609	MIPVSEKSKIGQLNMLKGKKT KGKKVALVPAAVKKQEAKKV VNLLEFKRPKNVIG/QDIQPKR DLHARFVKWPRYIRLQQQTAIL D/QFIQALDQQTATQLLKLAKH YRPETKQKNKQRLA/RAEKKA ASKGDI PNKRPPVLQAGVKTVT NLVENKKAQLVVAIHDVDPVE LVVFLPVLHCKMGVPYCIHGGK ARLGHVHRKT
16046	46414	A	16137	1	824	GTRPKMPKGGKAKGKKVAPAP AVVKKQEAKKVVNPLFEKRIPK NFGIGQDIQPKRDLTRFVKWPR YIRLQQRALILYKRLKVPAINQ FTQALDRQTATQLLKLAKHYR PETKQEKQR/LARAEKKA WPKGTFTPKRPPVLRAGVNTV TTLVENKKAQLVVAIHDVDPVE LVVFLPALCRKMGVPYCIHGGK ASLGRIVHRKTCTTVAFTQVNS EDKGALAKLVEAIRSNYNARY DEIRRHWWGNGVLGPKSVARIA KLEKAKADLATKLG
16047	46415	A	16138	1	799	
16048	46416	A	16139	1	344	MHQTTAKTPHTSYPNNYEEHN RRANRSKNYDRIRHTTILKRTN PAQTITNLLKSRFNRYNYVQPR SCRSIFIHIPGERDLNLCIAPNP AIFPTSIGYLGPDNLNLPYAPFI TTNLTGPAPTTTHPVGNLGTG NPEPGGCGILIVWCCVNWACL WDSVVAAPREPYMPAGLLRHR RHYRHRREDLIAVPAARQTDE NRRPALCHEYAVGHRKIKNV EHTEPYILPLITHSQPLNRGAFF CPGVRFVVSVDLDFEKRLAFAS *SCGVQLRIRGKVQGVGFRPFV WQLAQQLNLHGDVCNDGDGV EVRLAYRVLVGQPQHYPRGRP
16049	46417	B	16140	1	1323	
16050	46418	A	16141	1	1356	
16051	46419	A	16142	1	1524	

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16052	46420	A	16143	173	2310	QQWASRTRRWRSLLTLCVDA RSQHDYIALSRLFHTVMLFDVP VMTRLMESEARRFIALVDEFYE RHKLVVSAEVLVEIYQGDRL KFEFQRCLSRQLQEMQSEYLKR EHLAAKPTVKRDWYVVDAT GKTLGRLATELARRLRGKHKA EYTPHVDTDGYHVLNADKVAV TGNKRTDKVYYHHTGHIGGIK QATFEEMIARRPERVIDNRRGS LRQAGYAIHDGGNSMAKNST CGVQLRIRGKVQGVGRPFVW QLAQQLNLHGDVCNDGDGVE VRLREDPETFLVQLYQHCPPLA RIDSVEREPFIWSQLPTEFTIRQS TGGTMNTQIVPDAATCPACLA MNTPGERRYRYPFINCTHCGPR FTIIRAMPYDRPFTVMAAFPLCP ACDKEYRDLDRRFHAQPVAC PEGPHLEWVSHGEHAEQEA LQAAIAQLKMGKIVAIKIGGG HLACDARNNAVALTLRARKHR PAKPLAVMLPVADGLPDAARQ LLTTPA/APVIVLVDKKYVPELC DDIAPDLNEVGVMPLPANLQH LLQLQLQCPLVMTSGNLGSKPP AISNEQALADLQGIADGLIHN RDIVQRMDSDSVRESGEMLR SRGVVPDALALPPGFKNVPPVL CLGADLKNFTCLVRGEQAVLS QHLGELSDDGVMQMQWGQRLC RMGTQVLPPFTFNIKKVQSARY
16053	46421	C	16144	1	184	
16054	46422	A	16145	85	416	
16055	46423	A	16146	96	570	

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16056	46424	A	16147	2	1690	CCCCPCCPCWGRVSGSVAGG PRQGLGLPLSLCISPGSLNKDPS YSLQVQRQVPVP/EGLCVIVSC NLSYPRDGWDESTAAYGYWFK GWTSPKTGAPVATNNQSREVE MSTRDRFQLTGDPGKGSCLVI RDAQREDEAWYFFRVERGSPL TQKPDVYIPETLEPGQPVTVICV FNWAFKKCAPSFSWTGAALSP RRTRPSTSHFVLSFTSPQDHD TDLTCHVDFSRKGVSAQRTVR LRVASLELQGNVIYLEVQKGQF LRLCAADSQPPATLSWVLQD RVLSSHPWGPRTLGLRLRGVR AGDSGRYTCRAENRLGSQQQA LDLSVQYPPENLRVMVSQLNR TVLENLNGTSLPVLEGQSLRL VCVTHSSPPARLSWTRWGQTV GPSQSDPGVLELPPIQMEHEGE FTCHAQHPLGSHVSLSLSVH/S PSTAAGPLLLGG*GSAQLLL/ SRPARPPLCAGGLGRSCWRGTA VRAPSRPPAQPGPGPTAP*AS MEGSA PASGSAVRPGTSTGPRV ALSSSCYQGSWSMGEDLA WGL PWELASLPCSLSPALSSSG
16057	46425	A	16148	3	1578	VTQLLCTSNRRALFALFPGR RFRPVATNHQSREVEVMSTRGRF QLTGDPKAGNCSLVIRDAQMQ DESQYFFRVERGSYVRYNFMN DGFFLKVTGMWGGNPNCLSH WGGTLGTAYGLSREGSQGPLQ HKNN/HPTTVSVPALTQKPDVYIP ETLEPGQPVTVICVFNWAFEEC PPPSFSWTGAALSSQGTKPTTS HFSVLSFTPRPDHNTDLTCHV DFSRRKGVSVQRTVRLRVAYAP RDLVISISRDNTPALEPQPGQNV PYLASPK/GQFLRLCAADSQPP ATLSWVLQNRVLSSSHWPGRPP LGLELPGVKAGDSGRYTCRAE NRLGSQQRALDLSVQNPPENLR VMVSQLNRVLENLNGTSLP VLEGQSLCLVCVTHRPQPSQAE LDPEGTGSEPLALRPRGSSWSW LVGSSGARRRVHLRPSAFTGAP RRTLLSPCTTPRSCWAPPAPGR LRVCTAAAPPRPARPPLCAGGL GRSCWRGTAAQGLLRGSPPAQ PGPWAQTASPEPSMEGLNSGPQ

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16058	46426	A	16149	90	1029	MLLPILLSLGGSQAMDGRF WIRVQESVMVPEGLCISVPCSF YPRQDWTGSTPAYGYWFKAVT ETTKGASIVAPNPPSREVEMST RGRFQLTGDPKAGNCSLVIRDV QMQDESQYFFRVERGSYVRYN FMNDRVLKVTALTQKPDVYI PETLEPGQPVTVICVFNWAFEE CPTPSFSWTGAALSSQGTKPTTS HFSVLSFTPRQDHTDLTCHV DFSRKGVSARTRVRLRVAYPP ETFGISIFTVTNTPDPDENLRVM VSQANRTVLENLNGTSLPVLE GQSLCLVCVTHSSPPARLSWTQ RGQVLS
16059	46427	A	16150	270	1001	CCCTVYRAFIRKRLKRSSDSVY RRKNPSASYDRDAESLAAYK SGEVDLHQLASTWAKAYAETT LEHARPEEPSWDEDFADVYHD LIHSPASETLLNLEHNYFVSISEL IGERDVELKKLRERQGIEMEKV MQELGKSLTDQDVNSLAAQHF ESQQDLENKWSNELKQSTAIQK QEYQEWVVKLHQDLKNPNSS LSEIHKVQSPQSFRESVEAIGRIYE EQRKLEESFTIHL*AQLKTMHN
16060	46428	A	16151	60	648	LAMSLSHLYRDGEGRIDDDDD ERENFEITDWDLQNEFNPNRQR HWQTKKEKGLQRKEFFTDLV GLCFCAIRARDYSAPVNFISAG LKKGAEEEELESDGFLRFFFI LFFH*LSFDFSLQGGNFKPSQK GFAGGTGKSFMDFGSWERHTKG I*FTYMNCCKRKTLLFFC*NSSG IINPIEAKQRKGKGAVGAYG
16061	46429	A	16152	237	450	LAMSLSHLYRDGEGRIDDDDD E/REENFEITDWDLQNEFNPNR QRHWWQTKKEESTYGVWAERDS DDERPSFGG
16062	46430	A	16153	12	85	VSFLSMGSGHCIRSTRGSKMVS WSVIAKIQEIWCEEDERKMARE FLAEFMSTYVMMNIHMIVEKN T*SPFCPPWARATVSGPPVAPKW SPGP
16063	46431	A	16154	49	481	
16064	46432	A	16155	20	248	
16065	46433	A	16156	493	728	VSFLSMSSGHCIRSTRGSKMVS WSVIAKIQEI*CEEDERKMAREF LAEFMSTYVMMVSGRAARSG WALPGSPMTSPSP

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16066	46434	A	16157	136	306	ASSSREGLTKFAKFTKFKIHQI *ITLTSYSIKSLEKVCADLIRGTK EKNLKVKGVP
16067	46435	A	16158	563	1216	MMFWPELQPRVCWMGLSWVN HQNGRRRRRNQKHH*QKVPLL IMASK*KLLEFLNRETKASANL SETVTKPPLPQKNTAQVGASSQ TRKPNKLAPHPAPVAFVKNTCP SRPRERQTHFLRPRPEDRMVAL KPIKIVLPPVFMPPSSPQGIRSR MPTQHLYCRWVAPKALVPTCL PTHLSRKEEKKRMDTPFLPY SRPPSGEWLLIVLWFFNRSQRS
16068	46436	A	16159	1	143	
16069	46437	A	16160	40	230	KQAAQPAVATLSGPLPHCGSFV LSLFAINLVAHSLGPHCLYEL* HSPRRSTASLREGPRLHS
16070	46438	C	16161	233	319	
16071	46439	A	16162	290	472	EFLDTFCYIPKVVDDQ*D*THKQ QHNVAIIPHVSSAQMSTFC*RT MPTISDDPWHMAMSMRAV
16072	46440	A	16163	3	553	
16073	46441	C	16164	270	608	
16074	46442	A	16165	2598	2943	HSPRGSAAFLKSVRPRTHQFR TQEDRLSPGIQDQPGQPSNTPSL QKL*N*LGVMGRCSPSYLS*P WREDHLSPGG*GCSEP*LHHCT PAGVTKSDRVSKNK*INKNKIN NDNQ
16075	46443	A	16166	2	58	
16076	46444	A	16167	218	342	
16077	46445	A	16168	734	872	
16078	46446	A	16169	1233	1706	CLVFWLLYYPGQLPFHLLPHS LGSQQSSSEESAATPSLAEGRR EAAFRCPAGLARQA WRPHAR LPGAAPLAAPSLAPLTGRSG RWLPMCAASC*SPSPAMSVYP QRRLGQGGAEDEGGPVSRGC RAPGPQRPLAAPGEQTAARTQ AICLIW
16079	46447	A	16170	598	1159	CRQTGKVIYDVWFFWLLYYPG LQLPFHLLPHSLGSGQSSSEESA ATPSLAEGRRREAAFRCPAGLA RQAWRPHARLPGAAPLAAPSL APLPTGRSGRWLPMCAASC*S PSPAMSVYPQRRLGQGGAEDE EGGSVSRGCRAPGPQRPLAAPG EQTAARTQASVYLLPHSPPLL SALHIIHLLPPS



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16080	46448	A	16171	834	1185	RSLFRHHRPSAAFPRTPCSDCPR CSAGTMEDCWLVLGSPELR*KS LHERPFHWLPSPSRARCCLPRSE TPAGVPVPPRPGPRRARRPRGTS RPPPASSRGRGALGSLPASEPLP ARAT
16081	46449	A	16172	78	478	VVKNSLIFLVNQVLNSRDFHVF FKTT*NCPAQAHAAALYQGLGP ACSQRAASHWMSSSSKRSSKSLK KSA*TAFLAAKSIKSPGAASRL GNGKARLCQVRFPKEQVISALQ GHYPHKRRWVRGNRLKLEST F
16082	46450	C	16173	1323	1656	
16083	46451	A	16174	77	231	RSCMTLMWPRSTP*FGLMERR RHMFDWLLITMLWMLPTKLGS SKLSPAA*F*SSCLIL
16084	46452	A	16175	1	255	STSKGEKPAIRAMAHFLEPHPIN FLGARARKADLSPT*YHFFKHL DNFLQKGCFHNQQDAENAFQQ FFKSQSTNFYAGSSFVTEV
16085	46453	A	16176	690	1020	SPVLQRAFKNGPGTANERTVQ WWFKKLCKGDESELEEHS*G PSEIYNNQLRAIFKADPLTITRE EVFPHPLYSPDLSPSYHFFQHL DNFLQKGCFHYQQDAEHAFQE
16086	46454	A	16177	1	383	MHRSCGSDAYALLGERSVSLR RCAVRHAGGIRSANADISNDKA GEKPARRKTKGSCPTLIGAGLV QSLSPIQSAADAGELGSGILPD VESLRIPVQYLANLLTAGDTKP VLRALKRLAMRHYKRAETV DGKVDTRALEEVGLTEAQAQE MYRYLAIANYEDRFVVPSSHRE LAREAFPEKNGCGFTFGDGCH GSDTKFNLFNSSRIDAID*PCPD *RWTGTLGLPASGLFTRFIVTY VSIRTSDDTSSMPHSTPSQA/TERS PNNA*ASLQTC

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16087	46455	A	16178	740	1977	SASASRSLHEHITVTPSTGILTCFP STTPFGLAL/GGTGLGPASGLFT RFIVTKSSIFSVTPLVQPKPSCN GYSPPPPVPHRREFQRRVIAEK IFCQHHRAKLNRLEERQYLTVN FRAIAQRVNIGITGLQITIDANA AINRQPGASCQGRFPGAVRCGG NYRIHFIDIALAVQRWPECQNPF FPAPVTEISTADERPSPLTGCLQ RLVTFGSVIFGIHNMIMRLAPIGR FGAMAFITIGKYGVGTLLVQLGQ LIICFYITCILFVVVLVLSIAKAT GFSIFKFIRYIRELLIVLGTSSSE SALRRMLDKMEKLGCRKSVVG LVIPGTYSFNLGTSIYLTMAA VFIAQATNSQMDIVHPITLLIVL LLSSKGAAGVTGSGFSVLAATL SAGGPIAGSGSGADPRYSTALC
16088	46456	A	16179	757	1037	FLDPSPPEPNVTVTPSTGILTCFPS TTPFGLALGVDSPCPD*RWGTG LGLPASGLFTRFIVTVGVTPALD TGLM*LRSCGPPRSML*HRTQQ KC
16089	46457	C	16180	1	313	
16090	46458	A	16181	178	290	LLGLASEN*HCPASEAP*TIT DTELWVTLTVEGKS
16091	46459	A	16182	1	251	
16092	46460	C	16183	129	1136	
16093	46461	C	16184	117	364	
16094	46462	A	16185	636	748	LLGLAAED*RCPIASEAPQTIT DTELWVTLTVEGKS
16095	46463	A	16186	37	444	DPQVGKLLQHCPARIKMTVTF NNHRKPOLSKFHLQYSEDQQ QIIRETFHLVFKRDENVCKFLGT IWSLTGKLNRGQAPLFGIFHT VELHLEIRSSCQGVHF*LTCSFS CPCSGPFVNSPFYLPESGHSK
16096	46464	A	16187	179	422	LQLGPKEKQSRVLGSFFQVPSC GKMGCGSSGSRHIGFPP*PQLSG GPLDPRQSGSGISEMK*TE*GGY PKGSPQHYSRKHQGS
16097	46465	A	16188	1064	1374	KEQCLQALSSVKNREKRPSSFH PICWSAVFSVGREGDMWPLAP FPDSEN VAGAGALLRLAALPG LSWALRPPPPAPVRSWATSGW* GGQGREPGRIIPRW

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16098	46466	A	16189	44	515	VGGGGVQPSMTMGDKKSPTRP KRQAKPAADGFWDCSVCTFR NSAEAFKCSICDVRKGTSTRKP RINSQLVAQQVAQQYATPPPK KEKKEKVEKAGQKRKPEKRPR KFSP/SVVTKKNTNKKTKPKSDI LKDPPSEANSIQSANATTKTSE TNHTSR
16099	46467	A	16190	382	795	DSGRSWKRLSPPRPMCDTWA LGSYPRLCFVSPFSCSLPLPSL FPHSPLGRPKRQAKPAADGFW WDCSVCTFRNSAEAFKCSICDV RKGSTSTRYLKICVTWVVVI*Q VFIEHTAICALGVQWYKDRPGP CSYGA
16100	46468	A	16191	2	343	
16101	46469	A	16192	472	625	KTSLFQHWLWKVTIVIVMF**L RVNVGKLLNNHRYNSENASL GSQWKFP
16102	46470	A	16193	343	693	KTSLFQHWLWKVTIVIVMF**L RVNVGKLLNNHRYNSENASL GSTQIPLKAFNPCHTSFTLCKH MVIQAHQEKLQILYLGLDL ET*HFQAFWQALDENMTLLESI TGFEFG
16103	46471	A	16194	340	534	TAIMNDMVTI*TRKFMNTQRLQ RKQMVIDVLHPGKATVPYLILI EQLRFARHCAWYGGDSDETSH
16104	46472	A	16195	80	552	PIPHLEKFHAPTRTRFRGNQMIV IDVLSPPGKADQCP*AQEIPGKT *PKMYQDPHPDVIVFVWIPELH FGSRGKTKLAFGNDFMSTLGF1 AKEKWNPKHRTLQGHGPGME/ ERKKTSGKPTERERQGTGLEG KFQGGGLAKGPPFGAWAKRRNE VSSS
16105	46473	A	16196	248	474	YPETPESPTQLSSGQPHREQPPE MPESPTQSSGQSCQEPPETPE LPM*PCLAQPSQKHMIG*QNN KHHENKM
16106	46474	A	16197	223	669	PRPSLPACSPWRIVDDCGSLKS WKRVCQWLQCPNALPCLGSL PLRCEFSGFPRN*LGLGSTTGSF AVWGGFLFSTIDCGLVRRPGPSP FHPVLPALTSVSLPPTPPGGPLA MVGSAAMGGWSGEWEILHLA SSTHPYPSLSPAPPFLE

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16107	46475	A	16202	188	484	HFGRVEVGRSQGEFQTRLAN KAKHHLYSFMNESQISPIGC*P M/PPKLIRKVHREKNCAGRNL R\QRSFKTGPPPPARPSSTLP PPPLPRLPRRP
16108	46476	A	16203	36	409	
16109	46477	A	16204	651	893	NTSVKNNFSFMNESQISPIGC*P MAPKLIRKVHREKNCAGRNL RAEKRLQTPGLPVPPARPSPPS PPTPLPAATPGGR
16110	46478	B	16205	13	441	
16111	46479	A	16206	3	205	NSSNSFSIQFCSFAGEELCSFGG EEAFWFLEFSAFLRCFFLIFRDL STFGL*CAPLEEKRHSGWFNFQ PFCAAFSSSSGIYLPVFDAGDL QMGLCGCPFC
16112	46480	A	16207	23	841	EKAKEFRRAEEKKEVPVAPET LKKRRNF AELKIKRLRKKFAQ KMLRKARRKLIYEKAKH\YHK EYRQMYRTEIRMA\RMARKA\ GNFYVPA\EPKLA\FVIRIQRV MGVSPKGSERCCCKLLRPFVKIF NGNLL*KLNGFRLTML\RV\IE PYIGMGGTPIKSVNELIYKR\G YGKIH\RKRIA\LTDYAL\IARSLG KYGIVCMEELNHEIYTVGKRFK EANNFLWPFKLSSP\QGG\MKK KTHFVEGGDAGNREDQINRL HRRNELTRLTWIFF
16113	46481	A	16208	1137	1200	PPSAPAPG*LRPPALSSGSP*PPS APAPG*HAPPSAGTPPP

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16114	46482	A	16209	1	1480	MNECRGVEITVCSSEDWIQRHL PGAVVPLKGEENVGVATEDHY QEDSFGLRGTGKPLKLEKSR PGAVTHTSPSDGLTQYVPDSL.T AMPAAA VVIWVIRPGCGVQQQ IGFLRHSNIDDIRPTIIRAVAPV KLHGIRIKMASFTSATRLTDEQ VITAPADSGIVIPFSDNWWAG GKTHLTHKDSHKLKVKGWKK AFHANGHQKQAGVAILTSDKT NFKATAVKKDKEGHYIMVKGL DQENITILNIYAPNTGAPKFM KQLLIDVRNEIDSNTHIAGDFNT PLTALDRSSIQVKNKETMDLNY TLEQMDLKD IYRTLHPTTAEYT IYSTVHGTFSKIDYMTGHKTS NKFKKSEIHSSSLSDHSGIKLEID SKRNNHQNANTWKLNNLFLNN RWVNNIEIKMEIQLFELNNND TTYQNLWDTAKVVLRGKFIAL NAYIKKTERAKKTIYHTSGI*K QEQT KPKPSRRKEIKIRAELEI TTKKTIQKK
16115	46483	A	16210	32	398	ASERLGGPGSPG*/PVNPRTDGS GAAWLSQRAQCTQSDPRV*EV PEHLSPSTPSQEYRGLPAL\PHTS RPSHCLPACPLPSRTQPVWPVK PGPTACRGFLQHSPTPGSP*S FQGSWWDTDL
16116	46484	A	16211	2	681	AEPWDEGGDGVPCRVPSGSGV* V*TLYLDSSVQLCGTEAPQHPV DGPPGGKLCHEGSLHLRQGGIP GPRLVLQFVQQA GVC GPGGNA VYSTPRDSASLVSGRTSMLFLR KFGKTWRKGLHQRGPPASPV LGRECNWG*VIGRIHPAQSS/SGP ACAKDAAEALGAAMPGLVSGPL GAALQPRGAGVQLGAATGPGS CSK/RGSPKADAR/PRHSQEPGQ VPPHAPQGPGLS

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16117	46485	A	16212	102	1005	VQWSARPDATPLSTEPSLADYP EAQSHIPRRGPRRPEKQGRGGK PPRALGRERAGGSRGPPASPD PLSRPCSQAPPPGASAGA*DAP ACRREAGSDGVPCRVPSGVS* V*TLVLDSVQLCGTEAPQHVP DGPPGGKLCHEGSLHLRQGGIP GPRLVLQFVQQAGVCGPGGTD GSGAAWLSQRAQCTQSDPRV* EVPEHLQPVDTHKELYQ*PGG RDGPGWEEPPQCGMGVSEAHG GAGGPGEGAGKRLQRKFGKT WRKGLHQRGPPASPVLRGRPR PE*VLLRCD*EG*PPSAGQLL
16118	46486	A	16213	378	494	GTACLIQIPOTQGV*QRGFLAEY IQWQLMRMSGSPVRTG
16119	46487	A	16214	18	894	SVGSLCCLQETPGLRAFGVPWR SAQRRWPRRASAALLSLVLPGR AHSRPTTLAPGLEAQPPPPGG SALAQHSRTAPAGTSAACLWP VSEQGAAPMCQVTRPPGSQAP CSQPSAAHAKHLTTGSSSPA SALPRA*TGSRWETKSSERVSFF SA*GTACLIQIPQTLRRRTG* VGRRLPGSGGDFGCSIFS* PV TYSLSVSATSSNEATQLGTT*S NSIIFECASQASTAVRCRLFT*T DAPWSRSSSTTKTCSITASC S VLPALLEALMEAPCPCLACSSA
16120	46488	A	16215	340	582	
16121	46489	B	16216	93	711	
16122	46490	A	16217	1378	2081	LSRKKPNWSPSPMPWYQFSLIWL MSVKTSPSWKPSWPFSWGWS YSTLQLGWSRGGMLLGVQM DLLEDWKGDAAIIGTVVQKG PPLDCSGSPRSKAPRTWAYTPA WGVRLPASCA*ASLPA RPGSA WPASGRSAAPP/AARS*LICS M SVSRRLCMLVSA TSLESSNFSSA WRSSSGILPCRFMSRESFTSA RCFMDSPASSASLKLDSLPS SF WWIRIRHSRSPSDCG
16123	46491	A	16218	191	288	
16124	46492	A	16219	67	209	
16125	46493	A	16220	96	341	
16126	46494	B	16221	1	1185	

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16127	46495	A	16222	192	703	AMPSCTRAGLAFVCHVRRRC LSCRGVIPASSQCLFPAPMGTT ATLRMENV DVKEEWQD*DLPR PLPEETGVVELLGSPVEDTSSTN TLNFNGAHRKRLTLVAPEINISL DHSEGLLFDDFLDTLDDLDIN VDDIETPDETDSLEFLGNGNEL EWEDDTPVATAKNMP
16128	46496	A	16223	8084	8251	TAGDERHGPSVRMFRIKGRRL GWMGPLGRGKR*VTRGMWPG KGPAYPGSSASSF
16129	46497	A	16224	645	1317	WGASRLREPPSPRTLHSPRGP ASAPPLRPLPQNRTSPSPAATT APPQPSEASRLPA*KAKPKPHPP SAPRRGGSPPRHSAQPA CGRRR PRSVGGAAPYAAERRNSAPQGP PQRLRRTAEGGKRSPNPRQRSH PRQRGDSL*LGWVSRDRRAGR DGRDGSAGGTRSPSPRYASPE PLGPAAPASPA GASWTGGPGR ADDSWRASVFGAQSSACFPRA RVL
16130	46498	B	16225	72	378	
16131	46499	A	16226	151	372	GGQHWAKAWRQTLGPMPER TGACGCGSL*PFTTPPPAICVD GTFHKYVFTPDGNCNREADFV YLDICDDDDF
16132	46500	A	16227	182	1083	HPGPCPDHEQVSGMGLVEDPV SPGLPLTLNLGPDNPPTCPA VLI WDDAREGKD*EG*SSLGIPPP HGHPVLC DTHRIVIVLKNRQLC PF*DAASSAAHPTPHLHTLGL CELP CGLLAPSLHTTPTSDSLL PQDLASTKPGTSSAPFTINAHQS DIACVSLNPGQTVVASASQKGT LIRRVCMVGW*PHTT*HVGITA DLSSINFSDSSFLFPTLPCPCP PAHLPLYGLASACRLARVGK VGP MIGQYVDSQWSLASFTEM PERTGACGCGSL*PFTTPPPAI CVDGTFHKYVF
16133	46501	A	16228	202	517	GVHCHGFSAGQAAGQEPTSVH ETLLPHQLQDQSALRGGVQNR QRHQA AEGPGERAGAAVS VGL GEPQCH*VGAGRAARGPPILEV PAGGADAAAECPAGPHGCGG

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16134	46502	A	16229	141	633	WENARPEPSQGDRLRAASVVSPPR LPPrKGQGGGLGYFGRGAGHAH GTAGQGASESETLLPHQLQDQC ALRGGVQNRQRHQA AEGPGER AGAAVSVGLGEPQCH*VGAGR AARGPPIL.EVPAGGGDAAAECP AGPHGQNRGQQSGISQLRHE REFLLRPFPQAPQL
16135	46503	A	16230	65	466	VVFAEAAEASLMTSGVGGGAA QSPRRRGWWPLGEMPYANQ PTVRITELTDENVKFIIENTDLA* GYRGKRLAALGRGRPKPGPRG RGRGCSGWWGGDVLPELPPCT RALALGACGAGPACRGCSAFTP LGF
16136	46504	A	16231	42	491	SGGKEAQGGSGTDQTVVVLNS PTYYSNDIPYTFHQDNNFLYL CGFQEPDSILVLQSLPGKQLPSH KAILFVPRRDPSELWDGPRSG TDGAIALTGVEAYTLEEFQHL LPKMKGNKWEQKSHYKPDWD *NLSCLFRQVLNFVIVAPP
16137	46505	A	16232	531	976	NQSVIRVNVNDSLIPVIAAELG VRKPSEKGMQKKTKDLGFR AGKESKTEWRK*GLQDMASQ MFASPLK*PVTAAFHDSMPSS LLQIFMEQLFLEARLQLDSKSE ARRNQCDMLLRNQLCSTCQ EMKMVQPRTMKIPDDPKAS
16138	46506	A	16233	2	419	SFLLSSSYTRTKSILRWPSLKKR ESGFPLNSSNSGVRKSC*LSSDP KSGTIVCPRFSTISPSSSSSSI CSKTFLPSFSLPQKAAPNLAR SWGLPGSRTARLSQGPDRGPRG VCLRGSGAAEPSQRRGKPSRDE IV
16139	46507	A	16234	27	792	INSIRILSTCKMGHPRFAPQAPG PLRTSEKGPVLPWAGNSSSDH SSEPSVGFYFNEDSDGSHPLVQ MRACSPDPAQGARPSAEAPGP *HSASRGSDPKVASEWRLPHAE ASPLPGFSGAASPAPKHSCTSF SCLPQKAAPNLARSWGLPGSRT ARLSQGPDRGPRGVCLRGSGA AEPSQRRGKPSRGTHRPEPRAG GRLSPAERSPETEHAQCGRRG LRND*TPVLRGAQKEVGRRD CRGSSAILRAGEL



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16140	46508	A	16235	343	969	YDKTRLFNVTPLPPPHKKIKKII QDIKGEILRAFPLRTGTGKHCPL SPLLFNILLEVLARAIQKEIKS IQIGKEEVKLSL.FADDIIILESP KYSSRKLQELIKEFSKVSRYEIN VHKSVALLYTNSQAENQIKKS TPFTIAAKNKIKYLGILYLTDAK DGYKENYKTLMEIIDDKNKQ KYIP*SWKGRINIVKTTILSTAIY
16141	46509	A	16236	15	403	ICESRRGRVCSALVRRYVGEFG GKAGSICMPQAPDKSSRWTLI RPPRFPPSPCSPGKEAPGGSEL /SPLPHAWPSDPVSPGLGDRVTA NPAEIR*EPGPQSAAPGFREQRR RGQMG*IWYLTPTPPGGQ
16142	46510	A	16237	19	454	KGKSLCTSPKVCRCRGLRKS PETKVTHICMPQAPDKTSRWTL LIRPPRFPPSPCSPGKEAPGG EL/SPLPHAWPSDPVSPGLGDRVT ANPAEIR*EPGPQSAAPGFREQR RRGQMG*IWYLTPTPPGGQRRPS SAASPRGFPLV
16143	46511	A	16238	276	898	MKGTA PWRCGSRGRVCSALV PKVCRGLRLKSRKPETKVTHIC MPQAPDKTSRWTLIRPPRFPPS SILQSWEGGTGWLRTPLPHA WPSDPVSPGLGDRVTANPAEIRIL GEDPESPEETLNLIRTPIPPKPR GNAKSHP/GGHRSHR*EPGPQS AAPGFREQRRRGQMG*IWYLT PTPPGGQRPSSAASPRGFPTTN SSRLPAEPE
16144	46512	B	16239	177	284	
16145	46513	A	16240	253	416	CCPVLPGPWAAGHPGD*PDGP G**AQPHKECRGGFAPLQVTLG PKQPSGKRVNK
16146	46514	A	16241	1401	2246	NIYLLQVDFDCWGLQGLGVSN PSYSIRRCYTAGQSPRGLPDGPR F*G*EESTGEQADCP*GSHRRSR SAAGAADGGLDPGAHTITCGC LSHRGRLVPAQKSSAAL*APSG AKPAPTVAPVHDPARQG*GGQ ARGQGARGPHSHREGLCEC*A VTTL*EPHLRNSSAPA*ERGPGQ IRVPEGQSGDQESSAEHHGGD PGGGKPRCGHQEPLGAGWPS PAGVEPLLGLQKSGDGAPE**E PQRGCVDEAQSSPGAVPEAK AIAVQPPADPVFAAVARCD

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16147	46515	A	16242	30	461	IPAETTC/EPAKIHFCFTDGSNGKASYSYSGKGVFQTPYISAQKVELVAVIEVLTAFDMPINVISDSYVMVHSTQLIENALQRFHTDEQLIHTKKGGNRDYGTAQTQLNLALLTFHFSSLPKGQMLPAAEQH LQKPAAKTQAE
16148	46516	A	16243	1	573	
16149	46517	A	16244	1	1689	
16150	46518	A	16245	1	1416	
16151	46519	A	16246	27	779	KNHFNWKDKFPPLRISFLMVA TVKPPPEPTPLKRLTEKPIWIEKW PLSK*KLEALEKLVTEQLENGHI APTFSPWNSPVFIKKKSGKWR MLTDLIAINSVIQPMGALQPPGL PSPAIIPKNWPLIVTDLKDCFFTI TLAQKQDCEWFTFIIPAVNNLQPAKHFFHCFDGSNGKASYSYSGK VKVFQTPYTSALTAELVAVIEV LTAFNMSINMISDSSYVVHSTQ LVENALQFQTDITDNDFIYPVANSS
16152	46520	A	16247	2	394	
16153	46521	A	16248	63	1123	ELDVMGLPEERVSRSGSRGQEEAGAGGRARSWSPPPEVRLVSLRLNMSQKINDIWASISVAEFWGDIAKEFYWKTPCPGPFRLRYNF DVTGKGIFIEWMKGATL*LCLFLVWGRSYTPNHWFLLVCLREG NEPGGQLDGREQVAARRVHGS YSVLLPAGIQKGDRAVAILSNPFL HSLNPWGFLLSRLSSLP*GPM DIVPTRQHGAY*GLECLLLPKD MDMGGSCQVPFEPTRLPL*AFL FSRGFPVRCCIVVKHLALTLSHSLYTWTLLQGGTGVSCHLELFTVLPCLSLQISWNQIDLWWHE LMQEAGDECEPLPSHLVVSRLGHKLTLCSPFPQGVVHTVGGY
16154	46522	A	16249	35	219	ALGVHFLVGPVGDGSRVAVDCGQQUPTSSACTTSGLSISRRCSGIWRMNQKKQVRGSPSKE

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16155	46523	A	16250	1934	3213	WPAPPSQVPSLDYGLALWFDA YVSVHGTQETSQCSPESSLTPPR LCGLRILQPYAERIPV VATAGIT INFTLRGYAWPNGALPASTVPC GFAACPGFELCSVNGRQAPAGS SGFLPPVPSLCPHTVCRATFQCK EDSTCISLGRFPWGSETHLLCPA PIPSVPGVPCGTFTFQCEDRSCV KSLSASPLLLLCPPHLPPSPD CGLQGPSSRIVGGA VSSEGEWP WQASLQVRGRHILGRGSFLPPH LTPPHPTPPHPSMASTVLWTVF LGKVVQNSRWPGEVSFKVSRL LLHPYHEEDSHDYDVALQLD HPVVRSAAVRPVCLPARGRIEN RGSRLLRSHFCP*PRTGPI SNAL QKV DVQLIPQDLCEVYRSSPG KGGALTLLQSFLSPFGDSSG PLVCKALSGRWFLAGLVSWGL
16156	46524	A	16251	511	853	CCWNMALIQTFQMSMEIPLCTT LS*TAHLASANGNSGVVKLLL DRRCQLNVLNDNKKRTALT KAV QCQEDECALMLLEHGTDPNIPD EYGNTTLHYAIYNEDKLMKA LLLYGADIESKNKVEEEMKKH ESNNVGLLENLSNGVTAGNGD DGLIPQRKSRTPENQQFPDNESE EYHSHTFELPSRIYP
16157	46525	A	16252	1050	1350	CDPQMCCCCRPEAATPG*REAA SAGPWD SAPPSPARTSLPSAHSS DYPLPRSRSSSAASRSPPRPL STIARRLNPRRSGRSLPSGQPAG PSDPRGFCL

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16158	46526	A	16253	2	3486	SSQSGAAAGAFCLGLCVDELTA SCDLEADSEDRTEHLATLQLRP DFSGSRCPAPQKHLQTHRPHSK PWPIY*PT*RSYLAIHPHSW*AP PPSRRRAPPFAHPHTQACPSTCY CHTLASRRGPSNGRYHRPGYPH PTAVQRDPPAGPRGCQSPC*HQ PPACRRPCGRHYR*HGQHDPPP WQ*HC*SRSPCHPPSQORDAVTW PFIHIPAED/SHTQPKQSPAFRP HTKTCPTCYCHTFAGRRGPSD GRHHHLGYHHPASVQWDPAC *RGCWRCQREPQTCPCGGR/P PPGTSLA*PPHPRVPLKEKLCQY DEFSEGLRHSALNRHQVRPTG EKSVKSLERGRGVQRNTHIRNH PRAPVGDMPIYRCDVCGKGFRY KSVLLIHQGVHTGRRPYKCEEC GKAfGRSSNLLVHQVRVHTGEK PYKCSECGKGFSSVSLQVHQH LHTGEKPYTCSECGKGCAKSA LHKHQHIHPGEKPYSCGECGKG FSCSSHLSSHQKTHTGERPYQC DKCGKGFHSNSYLQAHQVRVH MGQHLKYCNVCGKSFSSYSSGL LMHQRLHTGEKPYKCECGKSF GRSSDLHIHQVRVHTGEKPYKCS ECGKGFRNSDLHSHQVRVHTG ERPYYCDVCGKGFYSSDLLIH QRVHTGEKPYKCAECGKGFSY SSGLLIHQVRVHTGEKPYRCQEC KGKGRCTSSLHKHQVRVHTGKK
16159	46527	A	16254	333	695	ISVFRSPGQSTSQHDAATWPF HISGEGPTPSRRKAPFAHPHTQ ACPSTCYCHTLASRRGPCNGRY HRPVYPHTAMQORDPPAGPRG CQSPCWHYTPACRHPCGRHYR *HGQHDPPPWQ*HC*FGSPGQS TSQHDAVTWPFLLHPIGERPTAS RRKAPFAHPHTQACPSACYCH TLASRRGPSNGRYHRPGYPHPT AVQRDPPAGPRGCQSPC*HEPP ACRHPCGRHYR*HGQHDPPPWW Q
16160	46528	A	16255	9	437	SCNMSLCRCNCVIRAAFKEGTP ALLVYSAILSFPTVSLAKSCSISI AIVSNILSWLDPFKRGVVSLSLR LPSRVLL*L*LVHSLLKETSFRS SSFSSCRACFLRSSQ/STAGPCR HLCRPTSAGIGEQRRCRPESH EIVDRGI

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16161	46529	A	16256	619	1138	SCNMSLCRCNCVIRAAFKEGTTP ALLVYSAILSFTPVSV*DPEAFSP HLPNSNCWSLPPSLSSNVSRDRG AEAMQAGKSPWCVFPP*EPGPT GCEPPRTLPPAPFKLCSL
16162	46530	A	16257	408	801	SQRRGSVCRLVHGRHGQPGKG TSPHSSLWDWQPGPQPSGPPWP EGGASPGTIPSLIPRS*SASCCFP WHPGCSC*GAPASQC*VALSPQ PWFLPLCLSVPSVPGAATGPK HVRTPPGSDSAPPQLQPQSRI
16163	46531	A	16258	1	199	
16164	46532	A	16259	665	1006	IGSPDGRNVIRERTVTNETQTEG EREKEEERESHTGDVLKVGDL GPQGSSEFQLLSNLTVPNFIDI QFPK*VSAAC*DGPSHTSSYIS SSLFIIRASQSSPGDFSISVRY
16165	46533	A	16260	247	404	
16166	46534	B	16261	258	934	
16167	46535	A	16262	519	924	NRTIQADLLYPDDAGNPLPARN TRQASASADPPGARAGERRRG AAGPSPGR*QAPGPPPPGEGA GARPG*EGDAAGGATRFVGED ARLLRAGCHRGRGEAEPELQ ALRHPGLQGLL*EGAPHGELAL VAFHL
16168	46536	A	16263	121	214	
16169	46537	A	16264	139	272	
16170	46538	B	16265	1	1962	
16171	46539	A	16266	2373	2554	SATPWLPPTGLAAPTGLAAPGT RSPPGQT*PERSPAASPKRPERP ALDFQPFRQPPPPPP
16172	46540	A	16267	919	1653	WNCFVCSADTMAQIMAEQVEVE NLSGLSTNPEKDIFVVRENGTT RRPLQPPPRGRAS*GGAGRLCS QLITEQADIALTRGAEVKGRGC WRPLGLRTQTLRGLKRTSPAQ QESHNMSKGPEATCQLSGTLG* EQ*GF*LLLWALAVAGKHTAN SHHLSALVTPAGKSYECQAQO TISLASSDPQKTVFCRTYDSGCF DQSSLLFFFPAAEHKCPVDEREQ LEETLPLILGLLGLVIMVTLAIY
16173	46541	A	16268	2	321	PAWPPWPPTGFCPCQQDPSNT FVVPAAHTV*CSHPCSYYKGIR QMVGLPQLFHPDCPVPTPQAHT DSLNTLGLVGGPPVCSDATLPQ IINALEEDPAAQKMQALAF
16174	46542	A	16269	120	327	
16175	46543	A	16270	540	791	

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16176	46544	A	16271	1688	1945	DRVSLLPRLRQENRLNPGGRGC SELRSHHCTPAWATE*GSVSKK KKKKKNQKKNQDFISLALPPS PHCPPLSQSLLLQPSSSAN
16177	46545	A	16272	3	343	DIHHVRKSMEVNFLSYVVLTV AALPMLKQSGSIVVVSLSAET AMKAVSGIVHMQAAPKEECAL EIIKGGALRQEEVYYDSSLWTT LILIRNPCRKILEFLYSTSYNMD RFINK
16178	46546	B	16273	48	407	
16179	46547	A	16274	35	646	DLTGFIKFSLLGLFMAYYYY ANEFRPGKYPVSVFWRNRFK KHRGA*VAYHLAKMGAVVV TARSKETLQKVRVLCQICVPS HAQMCSYI*DMTFAEQFVAQA GKLMGEAVSLTSSSELCPWGH QELLDIHHVRKSMEVNFLSYVV LTVAALPMLKQSGSIVVVSLL AGKWRDICGR*KKKKNARD AVQTPGSKSAI
16180	46548	A	16275	221	393	LLYPANCVYMRCQMLHFQGI QRPIIL/HVSSGGAHLQGTGVET EEMRSAIAPDPIPLT

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16181	46549	A	16276	2025	4146	SDEWIIAGSVSGDYNSAAVS KNDILLGIEHISVFSETNHSSEEA FIKTAKSQLVEIEPATQNPKTSF SYERLQALQETCKENKGVPKQ GDTFLSFSAACTDVSSVTPEK EFEETSATGSSMQSGSELLKE REILTAGKQPSDSSEFSASLAGS GKSVAKTGPESNQCLPHHEEQ AYAQTQSSLFYSPSPMSMSDDE SEIEDEDLKVELQRLRFRHIQEV VNLQTQONKELQELYERLRSIK DSKTQSTEIPLPASPRRPRSEKS KLRSRPQSLTHVDNGIVVIDPLC VESNAASCQSPASKKGMFTD DLHKLVDWTKAEAVGNSLIK SLNQLKQSQHKLETENWNKVL QLESVYHREDEATWLPQLRAQI VAYPACAAAIASAHRRSMGVQ GFQEFLEKRCPGA VVPVDLLKL ARTVSRQQQQHLHRQLPPTA ALAPGAPRAARGSVPLQPLPP AALGAYSGGAGPIRHHHPAHH FHHHGQAQPLHPLPPPPPPQ LPGARVLVDAGSALPRLYGGY QTDWVCGGWNA MLGYSAL CQACAYPGGDGLVVMFPGG LGKDRLAEWGRRCQAERQTAQ LIVGHVGNKGTTPPRA WFLPPA CLSHCVRLALIRFRF*VFQSLD HHLEVVAFFRENGFHGLLAHD SEYALYNIPSYSSHALKLSWN GKNLTNQLMQEVAKQLGLK
16182	46550	A	16277	1	542	MRAPPKSGQLQHCPRSRGALRS GDLPWEINPLSSCSLLHEKDPP MTSGPQTNPKEHLTNFKSGV RP/LQGRLPWSFTLSGKSRFSGE GASTPTPYIS/GAPIPYFRTPSY LCAPIPVYRTPSYLCALTPFPL FWRHIRTSKRLN/LQQPGIPPEPP PPG/CLLQVPEI*PPQGMPAAQ
16183	46551	A	16278	3	351	VRPRRDACLGPSPLAASPAFLG KGQVPQPLISLCPDPLFPHPNLIS LRPNLCPHPDL/GISVP*PLSRF SGGT*ELPNA*TAAA/AAF/LPEP PPPG/CLLQVPEI*PPQGMPAA QDSS
16184	46552	A	16279	1	513	
16185	46553	A	16280	774	1007	ARSVTSSELCSGSWCLQASRHT HVPWCQL*KLPPVHLVQPQPC RGAPGAALPAGSLEMPGTTEP ERGCHSPGLGIS

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16186	46554	A	16281	507	520	LLGLAAED*CLIASEAP*TS LFGGLFTRTHMKFGAVTQIRGP PLGDKSPVLLFALERQRRHVL SMDPKLRCSWRTGKAAPWCL IIAEMPDISPTFQRCQTQGRLP WSFTLSSKSRSFSGEGARACYKC QKSDHQAKECPQGPPIPKPCPIC AGPHWKSDCSTHLAATPRAPG TLAQGLTDSFLA
16187	46555	A	16282	269	607	RARSEGAGLWSVVAPSAVSVF VSDPRCAPFHRSPCCSPVDRV CRCLRRVALAPALVLCVSGSH SQSPWNGLKLSDRLLGLAAE D*RCPIASEAP*TTTDAELTIPGL
16188	46556	C	16283	1	1752	
16189	46557	B	16284	146	372	
16190	46558	A	16285	336	753	ARTPLAAASRSGSGTRGGA VAGDDLRGPAEPGPAEPGARRR RGKGTSPSSRRPTQRRPSAAMH GHRCPQARRSREHPNTYFAGR RPPELRRGRSGVPPRP*RRPGE APRAPRPRAEL*ARLPRPSVRP APARRV
16191	46559	A	16286	1	768	FDELREEGFRQSVITNFSELKDD V*THRKEAKNLEKKLDEWLTR INSVEETLNDPMEKLTMAQELR DACTT*FREKRVKRNEQSLQEI WDYVKRPNLRLIGVPESDGEN GTKLENTLLDMIENFPKLARQ ANIQIEIQIPQRYSSRRATPR HIIVRFTKVEMKEKMLRAAREK GWVTHKGKPIRLTADLSAETLQ ARREWGPFIINLKEKNFQPRISY PAKLSFISEGEIKYLTDKQMLR DFVTRPALKE
16192	46560	A	16287	345	894	EQRHINIPESLGH*STSAGDTA DRVWSGPPANSRPAEAGPDC* KEN*QARTSNQNPICTPSSSK TKEAKNLEKRLDEWLTRINSIE NTLKDLMEKLTARELRDADR SFSSQFDQVEERSVIEDQMNE MKKEEFREKRVKRNEQSLQEI WDSVKRPNLHLIGVPESDGEN IKLENTL
16193	46561	A	16288	1	1206	



SEQ ID NO:	SEQ ID NO: of peptide sequence	Method	SEQ ID NO: in US 09/540,217	Nucleotide location of first codon for peptide sequence	Nucleotide location of last codon for last amino acid of peptide sequence	Amino acid sequence (X=Unknown, * = Stop codon, / = possible nucleotide deletion, \ = possible nucleotide insertion)
16194	46562	A	16289	1	882	MAPVSASEDFWQCPETSLISQL ESAPGIQLMEARDADKSLIMHE IAPTSNRELPHVKISIAKPCSMML MISWFFVNTGQSFKQDQAAIF AVLQPLLVIHRQTGSGVDLQQT PTDLQLRDLTVRRKNNKQKGI ASTSRKRTSTPKPHLQDHSSSPA MEQSWMQKDFDKLAEVGFRR SVITNFSELKEDVQTHHEAKN LEKRLDEWLTRINSVENTLNDL MELKTMARELHDACTSFSSRFQ DQVEERVSIEDKISEIKQEEKF REKRVKRNESLQTIWDYVVR PNLHLIGVS
16195	46563	A	16290	1	1008	MVRFGEDELGGRYGGPGGGERA RGGGAGGAGGPGGGLQPGQR VLYKQSIARARTMALYNPIPV KQNCFTVNRSLFVFSEDNVVRK YAKRITWPPFEYMILATIANC IVLALEQHLPDGDKTPMSERLD DTEPYFIGIFCFEAGIKIALLGFV FHKGSYLRNGWNVMDFVVVL TGRKAGLGGCGSGVESGGWGD RSSSPAMEQSRMENDFDELTEV GFRKSVITNFSELKEDVTRHRK EAKNLEKRLDEWLTRMNSVEK TLNDLMELKTMARELRDACTSF SSQFDQVQEMVSVIQDQISEM KREEKFREKRVKRNESLQ* WDYVERPNLRL
16196	46564	B	16291	1	1257	
16197	46565	A	16292	3	467	KTPFVGQYHQRPVKDKTTKMG RNQSRKAENSKNQSTSSPPKDP GSLPATEQSWTENDFDELTEVG FRRSAITNFSELKEHVLTRRKEA KNLEKRLDEWLTRINSVEKTLN DLMEKTMARELRDARTSFNS *FNQVEKRISVIEDQIDEIK*EDK
16198	46566	C	16293	115	498	

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16199	46567	A	16294	2	1455	TERDSININKKDIYTKTQSVGRQ HQRPKVDKTTKMGRNQNRKA ENSKNQASASSPPKDCSSPAME QSWMENNFDLTIETGFRRSVIT NFSELKEDVQTHCKEAKNLEK K\LDLWLTNRINSIEKNLNDLMEL KTMAQELRDACTSFSSQFDQVE ERVSVIEDQMNEMKQEEKFRE K\RVKRNEQSLQEIWDCVKRPN LHLIGIPESDGENGTCLDNTLQ DII*ENFPHLAR*ANIQIQEIQEIQ RTPQRYSPRRATPRHIIVRFTKY DMKEKMLRAVREKGFKPTKIR RDKEGHYIMVKGSIQEEELTIL NIYAPNTGGPRFIQVLSDLQR DLDSHTIIMGDFNTPLSTLDRS MRQKINKDIQELNSALHQVDLI DIYRTLQPKSTEYTFSSAPHRTY SKIDHVVGSKTLLSKCKRPEIT TNCLSNRSAIKLELRKILTQNR SAAWKLNNLLNDYVWHNEM KAEIKMFFETRTKIQHARISGIL
16200	46568	A	16295	395	656	FQLQRPASCSSPIQHRKHIPRKP A\SQSSLPHTGKSARQPEQPNR ENCLLRILIRVASEATRRWTRPS EFSSRSNPRAHHPRRALR
16201	46569	A	16296	671	1126	RRKVSELEHRRPVVKCPRRPPE VRKPESARVVSFPRGGARRSRP GATRSPQPRVPAAASASFGFGG LGRGGRGERARRGRGPKLEGF ESSAVLA*RNFPSPRRRRPGRG GVEIARLGGTGSSPRCPKPDPT ASLSELFIPSDIPRRRN
16202	46570	A	16297	2571	2716	THGMLEKRCCLQENMPIPGKD FMTKTLKAIATKVKIGK*DLIKS FCT
16203	46571	B	16298	54	576	
16204	46572	A	16299	475	719	VTWIRNNNACFTLNWFYHERS HIWILKSTLQCGQIIGNDVESR HKICPKPS*LVGSVELEADNVL PQKFPAAKTIFALYF
16205	46573	A	16300	395	830	LSPCHNSFFFFQAFDDIAKYFS KKEWEKMK*ATVPGPSLPLKK *TFCSFGLGFKVTLPPFMRSVSLE FGNLYQQRKILM*L*STVEMSLI LFICDLHIVKIMPKPAEEENGL KEVPEASGPQNDGKQLCPPGPNP STLEKINKTS
16206	46574	B	16301	54	576	

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16207	46575	A	16302	475	719	VTWIRNNACFTLWIFYHERS HIWILKSTLQCGQIIIGNDVSR HK/CPKPS*LVGSVELEIADNVL PQKFPAAKTIFALYF
16208	46576	A	16303	393	822	LSPCHNSFFFFQAFDDIAKYFS KKEWEKMKSATVPGPSLPLKK *TFCSLGFKVTLPPFMRNSLSLE FGNLYQQRKILMYF*STVEMSL ILFICDLHIVKIMPKPAEEENG LKEVPEASGPQNDGKQLCPPGN PSTLEKINK
16209	46577	A	16304	1	447	
16210	46578	A	16305	75	565	LLFSGFSLHGYLPHWYLCHLP RSRSLGLRDKRWVKGDTDFL SPSHPEYLLKEENDGHLCSLSFR MGNQFSSPLPAYTPLECILNH W DGFYP*NLEEKHLIALRTKGWP NYDLQEGLSWPQEGTHFNNT WQLELFCRHEDRWSEATYMQ AFYILQGNRDGL
16211	46579	A	16306	1	1620	
16212	46580	A	16307	128	223	
16213	46581	A	16308	1	1578	
16214	46582	B	16309	592	883	
16215	46583	A	16310	1	344	MHQTTAKTPHTSYPNNYEEHN RRANRSKNYDRIHRTIILKRTN PAQTITNLKSRFNRYNYVQPR SCRSIFIHIPGERDLNLCIAPNPP AIFPTSIGYLGPDNLNLPYAPFI TTNLTGPAPTTHPVGNLGTG NPEPGGCGILIVCCYNWACL WDSVVAAPREPYPAGLLRHR RHYRHRREDLIAVPAARQTDE NRRPALCHEYAVGHRKIKNV EHTPEYILPLITHSQPLNRGAFF CPGVRFVVSVDLFEKRLAFAS *SCGVQLRIRGKVQGVGFVFV WQLAQQLNLHGDVCDNDGDV EVRLAYRVLVGQPPHYPRGRP
16216	46584	A	16311	84	237	DGIVLSTYYHFYWHHF*ILEGP LPANTGDCLPLQVQPDREQVR WALFKK

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16217	46585	A	16312	2887	3537	HLDRSGLFNQIVIPVCRKLKGE GNDEKQCVTTSSRNAAFFLLHF FLLATFTWMGLEAIHMYIALVK VFNTYIRRYILKFCIIIGWGKPLK IFLVLFPHENCQVYGKESYGK EKDEL*VIKTCDE*ISFVS*SG VMFFLNIAMFIVVMVQICGRNG KRSNRTLREEVLRNLRNVVSLT FLLGMTWGFFAFWGPLNIPF MYLFSIFNSLQGGKINCT
16218	46586	A	16313	302	547	QIGLWTPNFRTFCVWTGGL VLCF*GFCFQEAAGARDTSSFA MGVSPWFEFRHG*LWPEMRSM E QILELLVLEEFLTITGQ
16219	46587	A	16314	1	1174	WEEKENKEYLKSFEILMLMGK QNIPLDGHEADEIPEGLFTPDNF QALLECRINSGEVLRKRKFETT AVNTLFCSTQQRQMLEICESC IREETLREVRDSEFFSIITDDVV DIAGEEHLPLVLRVFDSEHNLR EEFIGFLPYEADAEILAVKFHTM ITEKWGLNMEYCRGQAYIVSS GFSSKMKVVASRLLEKYPQAIY TLCSSCALNMWLAKSVPMGV SVALGTIEEVCSFFHRSPQLLE LDNVISVLFQNSKERGKELKEIC HSQWTRGRDAFEILVELLQALV LCLDGINSNTNIRWNNYIAGRA FVLCSAVSDFDHFVITIVLKNV LSFTRAFGKNLQGGTSDVFFAA GSLTAVLHSLNEVMENIEVYHE FWFEATNLAHQT
16220	46588	A	16315	717	902	GALQSWPCYLPRQCQCATVQNF CGVPTCMRKSTWSNLVVRFP QDPSRCAN**LDCCCTACTQ
16221	46589	A	16316	1	374	EHSEPPIGVQIVDYLLRQEKVT DRMDHSHKVEITVLSFVDDIIS GAKSPCAMPSPQDPK/QAQEIA DKIYNLFNGYTSKEQQTAYN TL.LDLGSPTLHRVL.YHYNQHY ESFGEFTWRCEDELGPR
16222	46590	A	16317	2	1293	